

# Water Levels and Artesian Pressures in Observation Wells in the United States 1954

## Part 2. Southeastern States

*Prepared under the direction of A. N. SAYRE, Chief, Ground Water Branch*

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*Prepared in cooperation with the States of Alabama, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia, and with other agencies*



**UNITED STATES DEPARTMENT OF THE INTERIOR**

**Fred A. Seaton, *Secretary***

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WATER LEVELS AND ARTESIAN PRESSURES  
IN OBSERVATION WELLS IN THE UNITED STATES  
IN 1954

Part 2. SOUTHEASTERN STATES

INTRODUCTION

By A. N. Sayre

The publication of records of water levels and artesian pressures annually in the United States was begun by the Geological Survey in 1935. Prior to 1940 the records for each year were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; 1939, 886. Since 1940, records have been published in six annual volumes, covering the northeastern, southeastern, north-central, south-central, northwestern, and southwestern sections of the country. Hawaii is included in the southwestern section. The following table gives the numbers of Water-Supply Papers from 1940 through 1954.

Year	North-eastern (1)	South eastern (2)	North-central (3)	South-central (4)	North-western (5)	South-western (6)
1940	906	907	908	909	910	911
1941	936	937	938	939	940	941
1942	944	945	946	947	948	949
1943	986	987	988	989	990	991
1944	1016	1017	1018	1019	1020	1021
1945	1023	1024	1025	1026	1027	1028
1946	1071	1072	1073	1074	1075	1076
1947	1096	1097	1098	1099	1100	1101
1948	1126	1127	1128	1129	1130	1131
1949	1156	1157	1158	1159	1160	1161
1950	1165	1166	1167	1168	1169	1170
1951	1191	1192	1193	1194	1195	1196
1952	1221	1222	1223	1224	1225	1226
1953	1265	1266	1267	1268	1269	1270
1954	1321	1322	1323	1324	1325	1326

The objectives of the observation-well program are to provide a day-to-day evaluation of available ground-water supplies, to facilitate the prediction of trends in ground-water levels that will indicate the probable status of important ground-water supplies in the future, to delineate present or potential areas of detrimentally high or low ground-water levels, to aid in the prediction of the base flow of streams, to determine the several forces that act on a ground-water body, and to demonstrate the interplay of those forces in the ground-water regimen, to furnish information for use in basic research, and to provide long-term continuous records of fluctuations of water levels in representative wells. These selected records serve as a framework to which many short-term records collected during an intensive investigation may be related.

Water levels in wells are seldom stationary but move up or down a fraction of an inch or many feet within a short time. Water-table wells may be influenced by direct recharge from precipitation, withdrawals from wells or springs, transpiration by vegetation, evaporation from the soil, and changes in atmospheric pressure. Artesian wells are influenced over large areas by changes in the rate of pumping from other wells, changes in atmospheric pressure, earthquakes, ocean tides, earth tides, and recharge from precipitation, although the recharge may not be noticeable immediately. When accurate comparisons of water levels are made it is desirable to apply corrections for these influences, several of which may be compensating or additive according to the conditions at those particular times.

Water-level measurements are given in feet with reference to land-surface datum or sea-level datum. Land-surface datum is a precise datum plane that is approximately at land surface at each well. Mean sea level (msl) is the datum plane on which the national network of precise levels is based. When some measurements in a table are above and others are below the plane of reference, a plus (+) or minus (-) sign is placed immediately before the first entry in each column. Readings between minus signs are below the plane of reference and those between plus signs are above the plane of reference.

For the most part, discussions of precipitation in this report are based on data furnished by the United States Weather Bureau.

Measurements of water levels and artesian pressures in wells were made under the direction of the district supervisors of the Ground Water Branch in the several States.

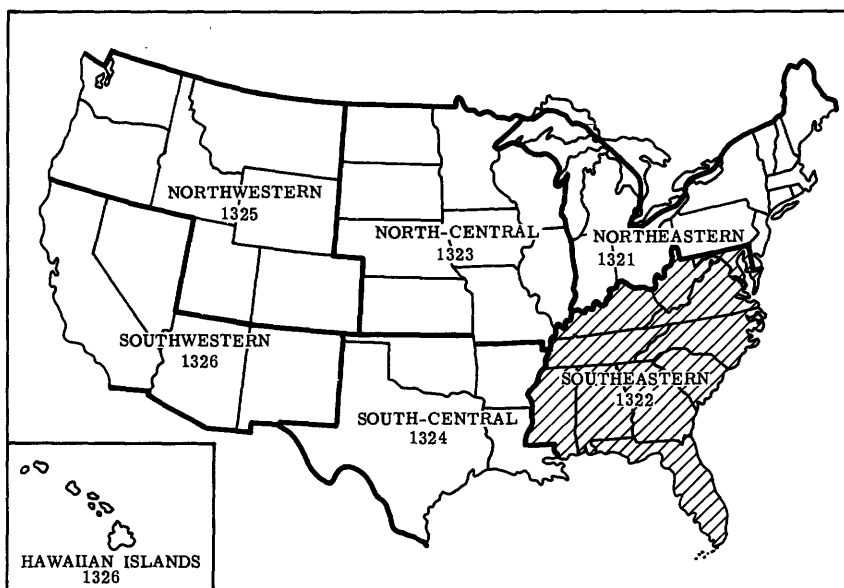


Figure 1. --Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1954. The shaded area indicates the States included in this volume.

Verda M. Dougherty was responsible for the compilation of the report and Rodney Hart edited the illustrations.

## ALABAMA

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By D. M. O'Rear and D. B. Knowles

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### Scope of Water-Level Program

The observation-well program in Alabama, begun in 1940 in cooperation with the Geological Survey of Alabama, was continued in 1954. Water-level studies were continued in the ore-mining section of Jefferson County as a phase of a mining-hydrology project. Water-level data were collected from 24 wells, of which 20 are equipped with recording gages, 1 is measured weekly, and 3 are measured monthly. Figure 2 shows the geologic provinces and location of the observation wells in the State. Information was furnished in 1954 in response to inquiries from 79 municipal, 117 industrial, 54 agricultural (irrigation), 155 private, and 39 State and Federal sources. Detailed ground-water investigations were begun in Talladega and Escambia Counties and were continued in Jefferson, Lowndes, Madison, Marengo, Tuscaloosa, Montgomery, and Wilcox Counties (fig. 3). Detailed reports on the ground-water studies in Madison, Montgomery, and Monroe Counties and a reconnaissance report on the Piedmont area are in course of preparation. A detailed study was made of the water resources of the Mobile area, and a report was completed. A report, "Mining-hydrology problems in the Birmingham Red Iron Ore District, Alabama," by Thomas A. Simpson, was presented at the annual meeting of the American Institute of Mining and Metallurgical Engineers in February and published as Technical Paper 39561.

### Precipitation

Precipitation in Alabama, which is mostly rainfall, is reflected in the fluctuation of water levels in water-table wells within a few days or even, in some wells, within a few hours. Similarly, periods of prolonged drought are reflected in the fluctuation of water levels in the wells. In Alabama the rain generally is heaviest in the late winter and early spring months, a period of maximum recharge to the ground-water reservoir. Intermittent heavy rains generally fall during July, August, and September, owing to the influence of the Gulf of Mexico. These rains, at times torrential, contribute some recharge to the ground-water reservoir though a large part of the water runs off in streams. Records from the U. S. Weather Bureau show that rainfall was much below normal throughout 1954. The precipitation in 1954, 34.36 inches, was the smallest in 71 years of record, breaking the previous low record, set in 1904, by 5.12 inches. In January the precipitation was 81 percent of normal, but it showed a continuous decline until it reached a low of 59 percent in both September and October. Substantial rain fell in November and December, but the total was still only 65 percent of normal by the end of the year. Temperatures ranged from 5.0°F below normal to 4.2°F above normal and averaged 0.7°F above normal throughout the year. The temperature ranged from a low of +11°F, recorded at Russellville on January 12 and Valley Head on November 3, to a high of +108°F, recorded at Greenville and Selma on June 28 and Belle Mina on August 16.

### Pumpage

Data on ground-water withdrawals are collected at Selma, Montgomery, and Foley, all areas of heavy annual or seasonal pumpage. Pumpage records by the Selma Waterworks during 1954 show an average withdrawal of 2.9 mgd (million gallons per day) compared to the average of 2.7 mgd in 1953. The water level in index well Dls-2 at Selma has shown gradual seasonal declines for the past 5 years in response, mainly, to increasing seasonal pumping, but it has recovered to normal or near-normal stages during the winter months. Fluctuations in well Bal-1 at Foley were related to withdrawals from the wells of the Riviera Utilities Co. during 1954. Normal municipal use at Foley averaged about 6.5 million gallons per month. Maximum pumpage is during the potato-washing season in May and June, averaging about 10 million gallons per month. Total pumpage in the Montgomery area is recorded for both pumping stations (the Day Street station and the Court Street station), but records are not kept for individual wells. The Day Street station pumped an average of 8 mgd and the Court Street station pumped an average of 5 mgd during 1954. The detailed ground-water study was continued in 1954 to investigate and evaluate the present well field and to collect data for use by the city in locating new sources of supply. Figure 5 shows graphs of pumpage at Foley, and figure 6 shows graphs of pumpage at Selma, 1951-54.

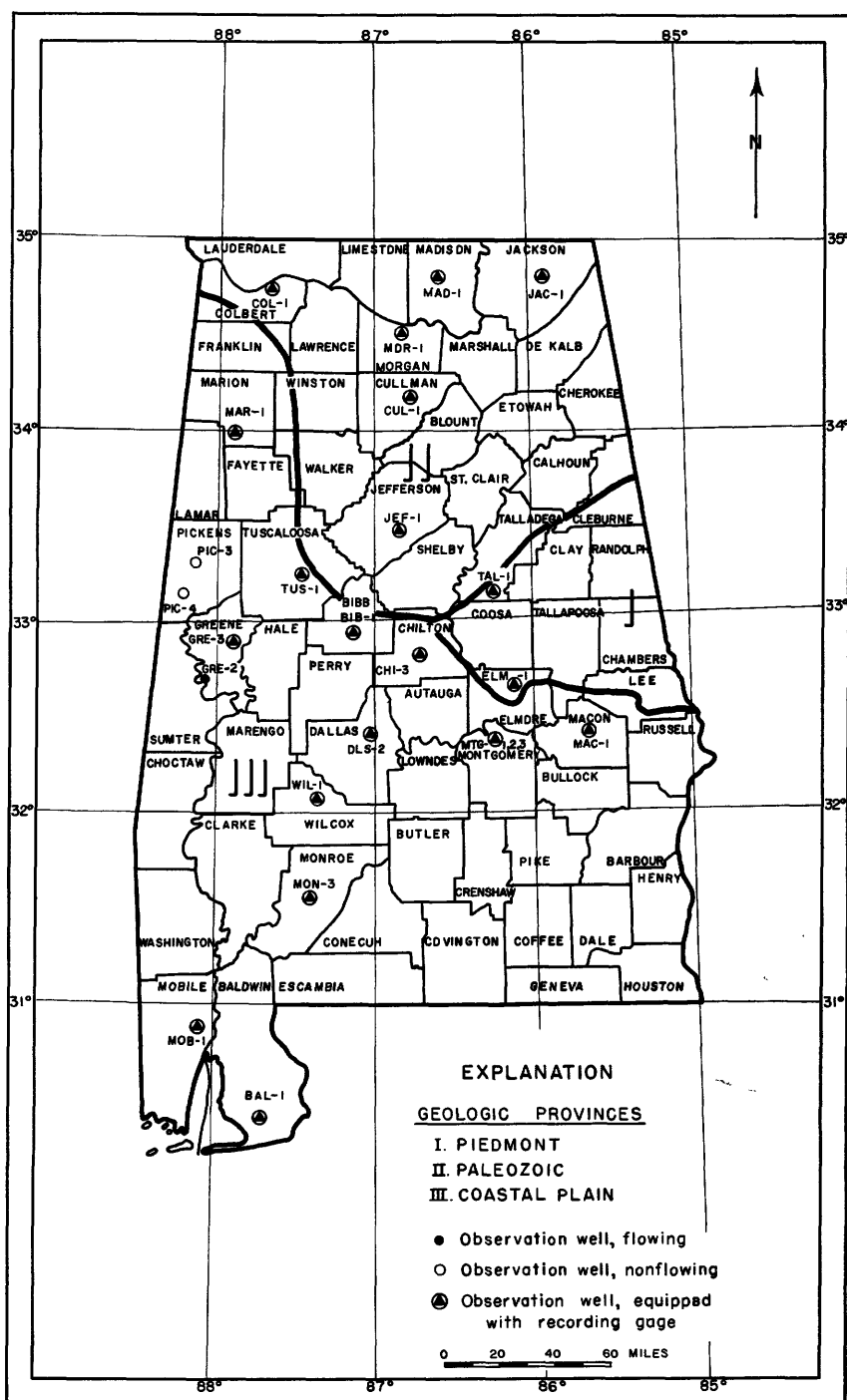


Figure 2.--Geologic provinces and location of observation wells in Alabama, 1954.



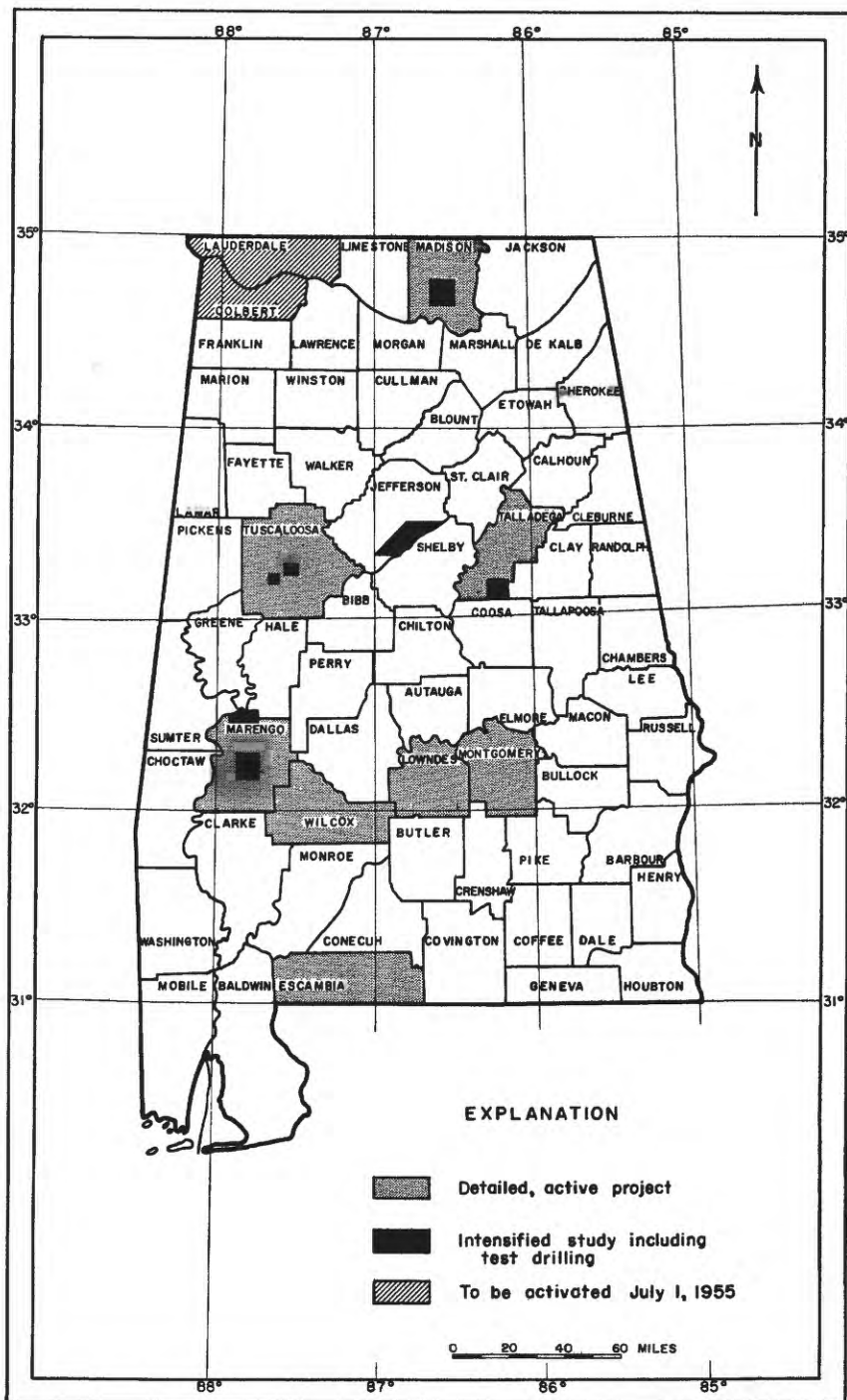


Figure 3.--Location of areas of detailed ground-water investigations in Alabama, 1954.

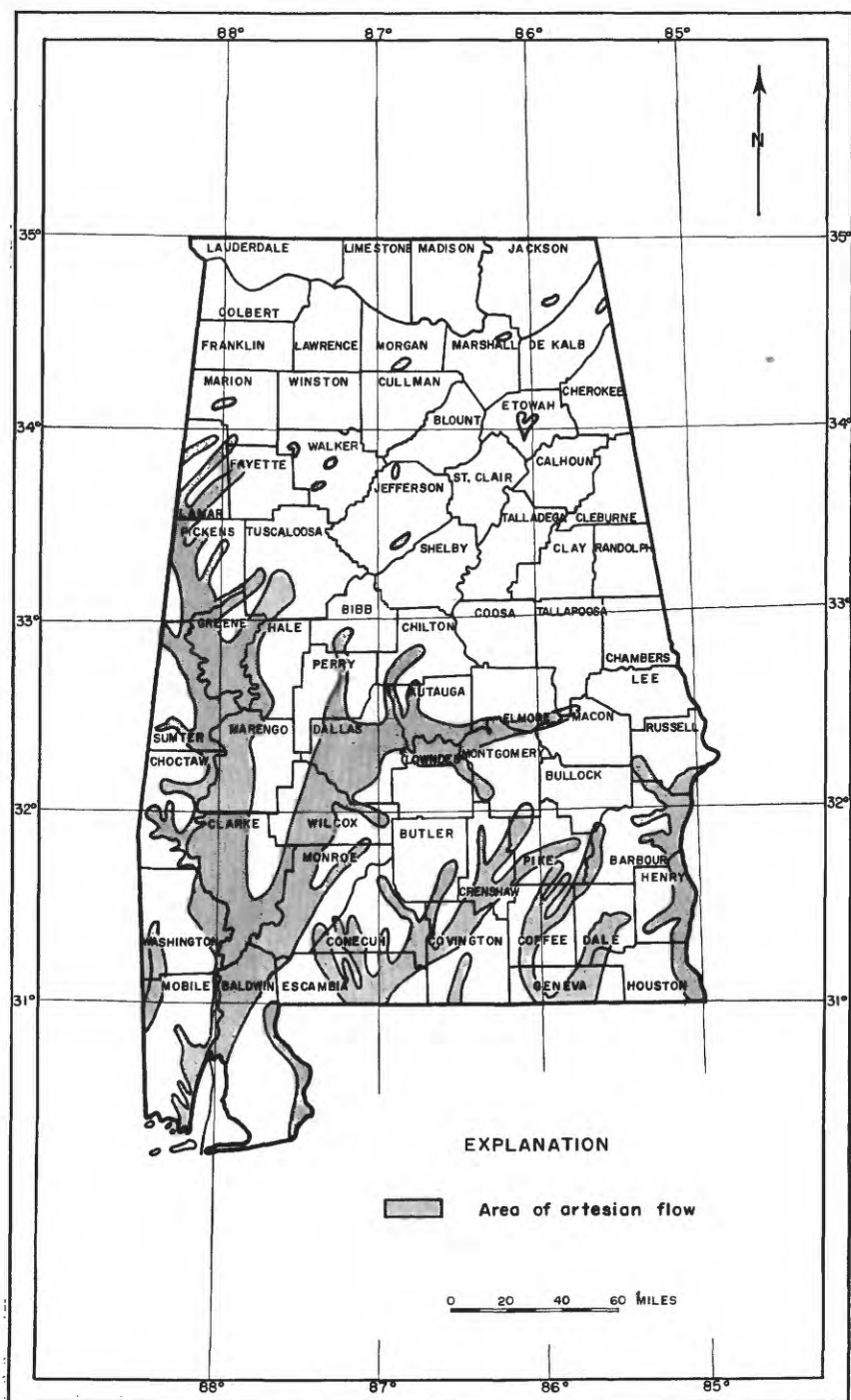


Figure 4. --Location of areas of artesian flow in Alabama.

## Interpretation of Water-Level Fluctuations

Water-level fluctuations can be correlated with recharge or lack of recharge, withdrawals by pumping, natural flows from springs and wells, barometric fluctuations, surface loading including earth and ocean tides, and earthquakes. Shallow water-table wells and springs respond with rising water levels or increased spring flows within a few hours or a few days after precipitation and with declining water levels or decreased spring flows during periods of no rainfall. The effect of rainfall on water levels in deep wells usually lags days or weeks after precipitation. Persistent decline in water level in some parts of Alabama is the result of concentration of large-capacity wells or of the uncontrolled flow from wells in the artesian basins. Many communities and private well owners using shallow water-table wells experienced acute water shortages during the extended drought of 1954. Graphs from recording gages on some nonflowing artesian wells show the barometric effect on water levels. The fluctuations are generally small, rarely exceeding 0.1 foot in a daily cycle. Water-level fluctuations in wells have been correlated with earthquakes. Water levels in wells of known sensitivity to earthquakes are correlated closely with notices of Preliminary Determination of Epicenter, published by the U. S. Department of Commerce. Water-level fluctuations in observation wells in Colbert, Elmore, Jefferson, Madison, Marion, and Monroe Counties were correlated with the earthquake near Fallon, Nev., on December 16, 1954. Water-level fluctuations due to blasting have been recorded in the Birmingham mining district.

Geologically, the State may be divided into the Piedmont and Paleozoic provinces and the Coastal Plain (fig. 2). The Piedmont is characterized by metamorphic schist and gneiss into which younger igneous rocks have been injected. Wells in this area yield generally less than 10 gpm (gallons per minute) and rarely more than 50 gpm. Only about 10 percent of the municipalities use ground water, but most of the private farm supplies are obtained from wells and springs. In parts of the Piedmont, however, large quantities of ground water are developed from limestone, marble, and dolomite. The principal water supply for the city of Sylacauga in Talladega County is a drilled well in the Sylacauga marble member of the Talladega slate that yields 900 gpm. Two industrial wells in Sylacauga have reported yields of more than 200 gpm. The water level in observation well Tal-1 at Sylacauga fluctuates mainly because of pumping and changes in barometric pressure. Fluctuations in water level in observation well Elm-1 at Eclectic are caused mainly by recharge and barometric influences. The water level fluctuated slightly, showing a gradual rise until the end of March, and then declined 4.4 feet from May 1 to October 29, reaching a new low of 12.76. Then the water level became somewhat stable, rising only slightly in November and December. Slight fluctuations, probably barometric, averaging about 0.1 foot, are noted.

In northern Alabama, important sources of ground water are the sandstone, limestone, chert, and dolomite formations of Paleozoic age. Ground water, found along bedding planes, joints, fractures, and solution channels, furnishes 60 percent of the municipal and industrial and all the private water supplies. Yields from wells in this area range from a few gallons per minute to more than 1,000 gpm; yields in excess of 200 gpm are not uncommon. Industrial expansion in the Tennessee Valley area of Alabama was possible largely because of plentiful ground-water supplies. Water-level fluctuations in observation well Mad-1 at the city pumping station in Huntsville are caused mainly by recharge and pumping. The water level rose to a high for 1954 in January then declined gradually to the low of the year in November. Col-1 is an index well in limestone in the Sheffield-Muscle Shoals area of the Tennessee River drainage basin, an area of rapid industrial expansion requiring large amounts of water. The water level rose to the high for 1954 in February, fluctuated slightly from nearby pumping and rainfall until May, then declined gradually to the low for the 2-year period of record at the end of December. Water-table well Cul-1 is an index well on the Tennessee River-Warrior River drainage divide. Water-level fluctuations can be correlated with rainfall and seasonal pumping at a nearby cotton-oil mill in the area. The water level fluctuated slightly because of nearby pumping and rainfall from January to June, declined gradually to the low for the year (22.0) on October 24, then rose gradually to 17.4, a record high, on December 18. The level in water-table well Jac-1, established as an index well by the TVA in the Scottsboro area of the Tennessee River drainage basin, can be closely correlated with rainfall, as it responds within a few hours after precipitation. The high water level for the year was 3.69 on February 1. Owing to the prolonged drought, the well was dry from October 4 until November 29. Rainfall and barometric-pressure changes are reflected in artesian well Mar-1 at Guin. The water level fluctuated slightly until March, gradually rose to the high for the year (9.23) in May, then declined to a record low (11.76) in November, after which it recovered steadily for the remainder of the year.

In the southern half of Alabama in the Coastal Plain area, water-bearing sand, gravel, and porous limestone interbedded with chalk, marl, clay, and impervious limestone supply water for municipal, industrial, and private use. Wells in this area yield from a few gallons per minute to more than 1,000 gpm; yields of 500 gpm or more are common. Artesian wells, both flowing and nonflowing, are used by many municipalities, industries, and farmers. (See fig. 4.) Many of these wells are allowed to flow unchecked whether or not the water is used. The unchecked flow from wells and concentrated pumping from high-capacity wells have caused water-level declines in the artesian basins. Declines have been noted particularly in the Mobile and Montgomery areas. Nonflowing

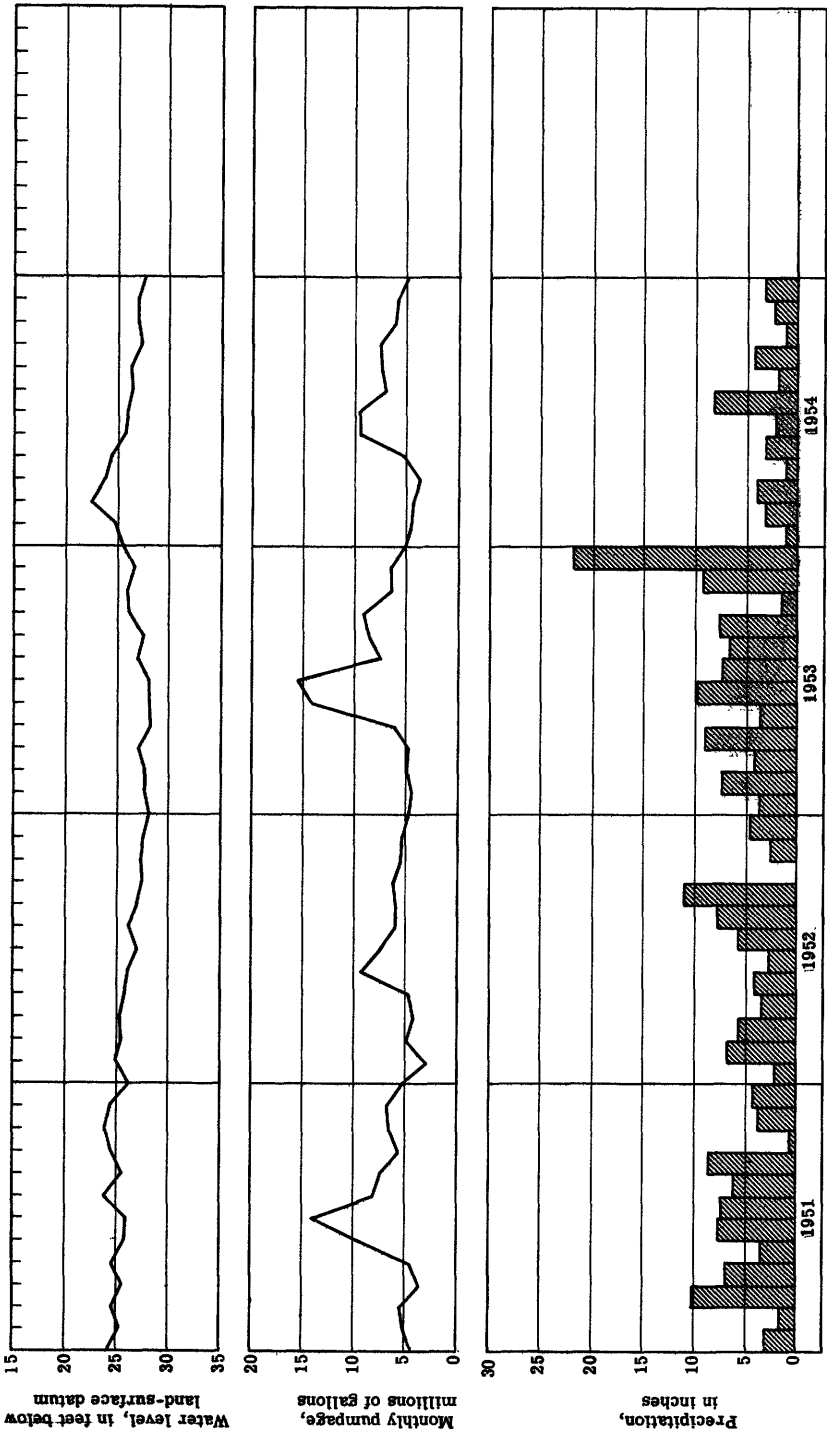


Figure 5. --Change in water level in well Bal-1, pumpage at Foley, and precipitation at Robertsdale, Ala., 1951-54.

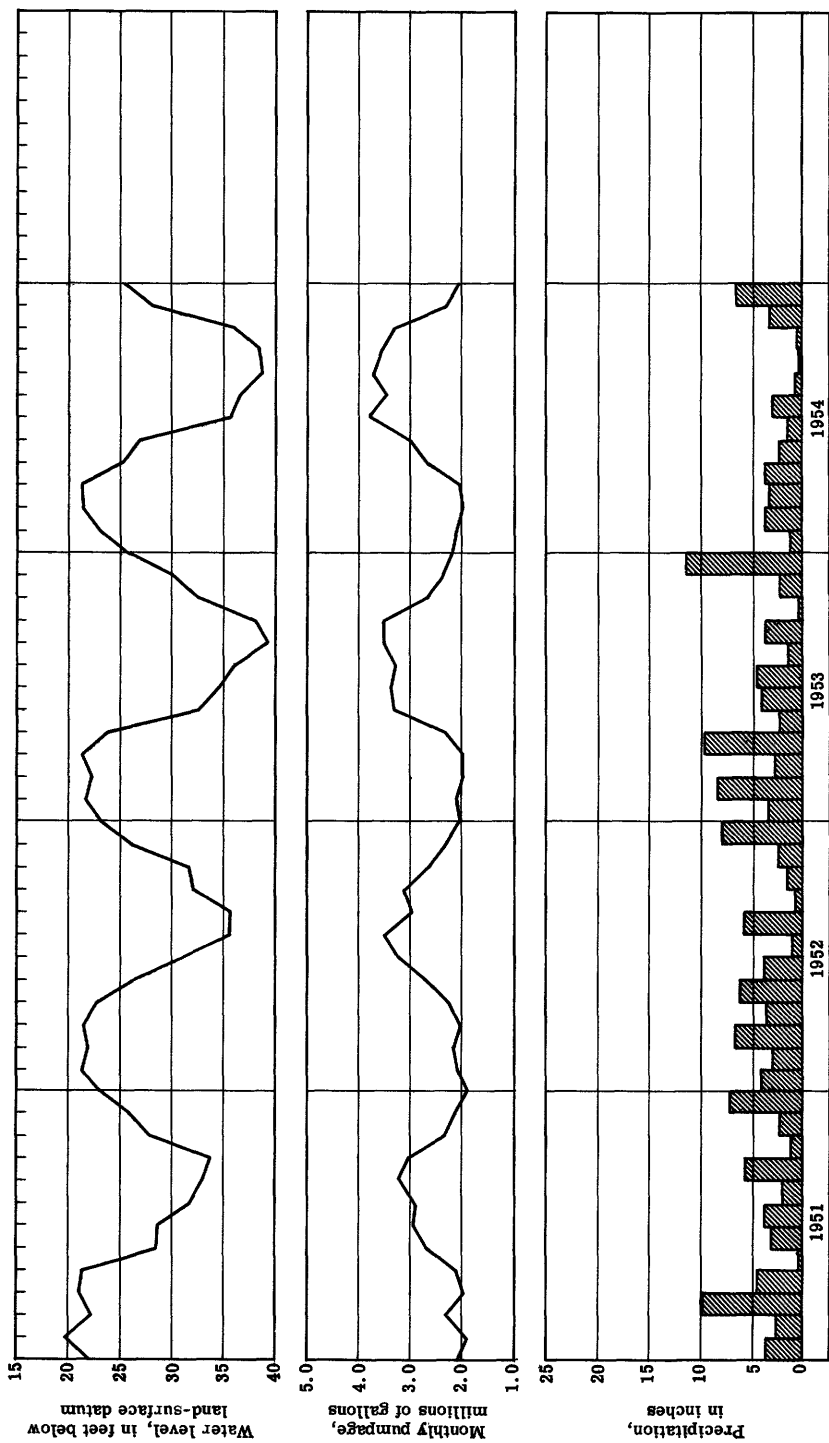


Figure 6. --Change in water level in well Dis-2, pumpage at Selma Waterworks, and precipitation at Selma, Ala., 1951-54.

artesian well Bal-1 in the city of Foley well field shows no water-level fluctuations that can be correlated with rainfall or barometric-pressure fluctuations. However, it is affected by pumping to the extent that such fluctuations probably would be obscured. The water level rose to the high for 1954 (22.0) in March, then declined gradually to the low for the year (27.3) in December. A hydrograph (fig. 5) shows the correlation between the water level and pumping in the municipal well field. Water levels in semiartesian well Bib-1 at Centreville can be correlated closely with rainfall and to some extent with barometric fluctuations. The water level in this well rose to the high for 1954 (25.1) in January, then declined slowly to the lowest level of record (32.3) in late October and early November. Water-table well Chi-3 at Clanton is near the contact of the sands and gravels of the Coastal Plain with the metamorphic and igneous rocks of the Piedmont area. The water level in well Chi-3 responds to substantial rainfall, generally within 24 hours. Water levels were highest in February, then declined to the lowest (9.52) for the 3-year period of record in November.

The water-level fluctuations in artesian well Dis-2 in the city of Selma well field reflect the heavy pumping in that area. A hydrograph (fig. 6) shows the correlation between the water level and pumping in the well field. Pumpage ranged from 2.0 mgd in February to 3.8 mgd in June. Owing to seasonal demands for water, the water level is highest in late winter and early spring and lowest in midsummer and early fall. Wells Gre-2 and Gre-3 are index wells in the Tombigbee River artesian basin. The pressure is measured periodically in well Gre-2, a flowing well at Boligee, occasionally pumped for municipal use. Gre-3, in the city of Eutaw well field, is not affected by city pumping. The level was highest in March, then declined to the lowest of record (38.59) in October. The water level in artesian well Mac-1 at Tuskegee Institute, an artesian well developed in sands of the Tuscaloosa group, fluctuates mainly as a result of pumping in the area. Pumping is almost continuous, and the only large-scale fluctuations in water level result from stopping or starting of pumps. The highest water level (71.90) was recorded in February; the lowest (75.95), in October. Water-table well Mon-3 at Monroeville is an index well in shallow sand and gravel of Miocene and Pliocene age and limestone of Eocene and Oligocene age. The water level gradually rose to the highest of record (59.78) in May, then slowly declined to the low for the year (64.29) in December. The water-level fluctuations correlate closely with rainfall and changes in barometric pressure. Three nonflowing artesian wells are equipped with recording gages in the heavily pumped Montgomery well fields. Mtg-1, in the old northeast (Court Street) well field, is an index well developed in sands of the Tuscaloosa group. Mtg-2, in the west (Day Street) field, is developed in sands of both the Eutaw formation and the Tuscaloosa group. Mtg-3, in the west well field, is developed in sands of the Eutaw formation. Water-level fluctuations in these wells are mainly in response to pumping. The water levels fluctuated slightly until April, declined gradually to record lows in late summer and early fall, then rose slowly during the remainder of the year. Water levels are measured periodically in semiartesian well Pic-3 in the Reform area. Fluctuations of the water level are seasonal, the lowest stages being in late summer and early fall and the highest in late winter and early spring. Artesian well Wil-1 at Camden is an index well developed in sands of the Ripley formation. Water levels are measured periodically. The low water levels occur in the late summer and early fall and the high water levels in late winter and early spring.

#### Acknowledgments

Acknowledgment is made of the assistance of the H. K. Ferguson Co., Inc., for maintaining the recording gage on the observation well at Courtaulds, Inc., Mobile, and of the Montgomery Waterworks Superintendent for supplying pumpage data on the Montgomery well fields. The Superintendent of Waterworks, Selma, and the Superintendent, Riviera Utilities, Foley, supplied pumpage data in addition to their regular duties as gage observers.

#### Well-Numbering System

Wells are listed numerically within each county. The prefix is derived from the county name. For example, well 1 in Baldwin County is Bal-1, and well 3 in Montgomery County is Mtg-3.

#### Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

##### Baldwin County

Bal-1. City of Foley. In waterworks lot. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 7 S., R. 4 E. Drilled observation semiartesian well in sand and gravel, diameter 24 to 12 inches, depth 146 feet. Land-surface datum is 76.0 feet above msl. Highest water level 16.00 below lsd, Sept. 26, 1949; lowest 28.0 below lsd, May 28-29, 1953. Records available: 1949-54.

Bal-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.6	22.8	22.8	23.7	23.9	25.6	25.1	25.6	26.1	26.3	26.6	27.0
2	23.6	22.7	22.8	23.7	23.8	25.5	25.1	25.5	26.2	26.4	26.6	26.2
3	23.5	22.8	22.9	23.8	24.5	25.7	25.2	26.3	26.2	24.3	26.2	25.9
4	23.4	22.8	22.9	23.7	23.9	25.3	25.2	25.6	26.1	26.2	26.2	26.7
5	23.5	22.8	22.8	23.7	24.7	24.7	25.2	25.6	26.2	26.3	26.7	27.0
6	23.5	22.8	22.9	23.2	24.8	25.5	25.2	25.6	26.2	26.4	26.7	27.0
7	23.4	22.8	22.8	23.3	24.8	25.6	25.2	25.7	26.2	26.4	24.7	27.0
8	23.3	22.7	22.0	23.3	24.8	25.4	25.1	25.6	26.5	26.4	26.6	27.0
9	23.3	22.7	23.0	23.4	24.1	24.9	25.2	25.6	27.0	26.3	26.6	27.1
10	23.5	22.7	22.9	23.3	24.9	24.9	25.2	25.7	26.3	24.3	26.7	27.1
11	23.8	22.8	23.0	23.3	25.0	24.8	25.1	25.7	27.0	26.3	24.7	26.7
12	24.8	22.8	23.1	23.4	25.0	24.8	26.0	25.7	26.4	26.4	26.6	25.1
13	24.8	22.7	23.1	23.4	25.1	24.7	25.8	25.7	26.8	26.4	26.7	27.1
14	23.3	22.7	23.2	23.5	25.1	24.7	25.3	26.3	26.1	26.4	24.7	27.1
15	23.2	22.7	23.2	23.5	24.2	24.8	25.9	25.8	26.1	26.4	26.7	27.1
16	24.0	22.7	23.1	23.5	24.2	24.9	25.3	25.7	26.0	26.5	26.7	27.1
17	23.2	22.8	23.1	23.5	25.2	24.8	25.4	25.7	26.0	....	26.8	27.3
18	23.1	22.8	23.0	23.4	25.2	24.9	25.3	25.7	25.6	26.5	26.8	27.2
19	23.1	22.7	23.0	23.5	25.1	24.9	25.3	25.8	24.0	26.4	26.8	25.3
20	23.0	22.8	23.1	23.5	25.2	24.9	25.4	25.9	25.4	26.4	26.8	27.1
21	23.0	22.8	23.1	23.5	24.5	24.9	25.4	25.9	26.0	26.4	24.9	27.2
22	23.0	22.8	23.1	23.5	25.0	24.9	25.4	25.8	26.0	26.5	26.8	25.7
23	23.0	22.7	23.1	23.6	24.3	24.9	25.5	25.8	26.0	25.7	26.8	27.2
24	22.9	22.8	23.1	23.6	25.4	25.0	25.4	25.9	26.1	24.5	25.8	27.2
25	22.9	22.7	23.1	23.5	25.4	25.0	25.4	25.9	25.3	26.5	24.9	25.3
26	22.9	22.8	23.1	23.7	25.4	25.0	25.5	25.8	24.9	26.6	26.8	25.3
27	22.9	22.7	23.0	23.7	25.3	25.0	25.4	....	26.1	26.6	26.8	26.5
28	22.9	22.8	23.0	24.4	25.4	25.0	25.4	....	26.2	26.6	25.0	27.1
29	22.8	....	23.6	23.8	25.3	25.1	25.5	....	26.2	26.7	25.9	27.1
30	22.8	....	23.7	23.8	24.6	25.1	26.2	26.1	26.3	26.7	27.0	27.2
31	22.8	....	23.8	....	25.4	....	25.7	26.1	....	24.7	....	27.2

## Bibb County

Bib-1. Centreville Gin and Cotton Co. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 25, T. 23 N., R. 9E. Drilled observation semiartesian well in sand, diameter 8 inches, depth 404 feet. Land-surface datum is 230.93 feet above msl. Highest water level 18.00 below lsd, Apr. 2, 1951; lowest 32.3 below lsd, Oct. 16-17, 20, 22-24, 26, 30-Nov. 1, 1954. Records available: 1948-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	26.9	26.9	....	28.3	29.9	31.1	31.2	31.9	32.2	32.3	31.4
2	....	27.1	26.8	....	28.4	29.9	31.1	31.3	31.8	32.2	32.2	31.3
3	....	27.2	28.2	....	28.5	29.9	31.1	31.4	31.9	32.2	32.2	31.3
4	....	27.4	27.7	....	28.6	29.8	31.2	31.4	31.9	32.2	32.1	31.3
5	....	27.5	26.6	....	28.7	29.9	31.2	31.4	31.9	32.2	32.1	31.4
6	....	27.6	26.7	....	28.9	29.9	31.2	31.4	31.9	32.2	32.1	31.5
7	....	27.6	27.1	....	29.0	30.0	31.2	31.5	31.9	32.2	32.1	31.4
8	28.1	27.6	27.3	....	29.1	30.1	31.2	31.5	31.9	32.2	32.1	31.4
9	28.2	27.7	27.4	....	29.1	30.2	30.9	31.5	31.9	32.1	32.1	31.4
10	28.1	28.0	27.5	....	29.2	30.2	30.7	31.5	31.9	32.1	32.2	31.4
11	28.2	28.0	27.6	....	29.2	30.3	30.7	31.6	32.0	32.1	32.1	31.4
12	28.1	28.0	27.8	....	29.3	30.3	30.7	31.6	32.0	32.2	32.1	31.3
13	28.0	28.0	27.9	....	29.4	30.4	30.9	31.6	32.0	32.2	32.0	31.2
14	28.0	28.1	28.1	....	29.4	30.4	30.9	31.6	32.0	32.2	32.0	31.2
15	27.9	28.1	28.2	....	29.4	30.5	30.9	31.6	32.0	32.2	32.0	31.3
16	27.5	28.2	....	....	29.5	30.5	31.0	31.6	32.0	32.3	31.6	31.3
17	25.6	28.1	....	....	29.5	30.5	31.1	31.6	32.0	32.3	31.5	31.2
18	25.1	28.1	....	....	29.6	30.5	31.1	31.6	32.0	32.2	31.3	31.0
19	25.8	28.0	....	....	29.7	30.6	31.1	31.5	32.0	32.2	31.4	31.0
20	26.2	27.3	....	....	29.7	30.6	31.2	31.5	32.0	32.3	31.5	30.9
21	26.2	27.3	....	....	29.7	30.7	31.2	31.5	32.1	32.2	31.5	31.1
22	25.9	27.4	....	....	29.8	30.7	....	31.5	32.1	32.3	31.6	31.2
23	25.3	....	....	28.7	29.8	30.8	....	31.5	32.1	32.3	31.6	31.2
24	25.6	....	....	28.7	29.9	30.8	....	31.5	32.1	32.3	31.7	31.2
25	25.9	....	....	28.6	29.9	30.8	....	31.6	32.1	32.2	31.7	31.3

## Bib-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	26.2	....	....	28.7	29.9	30.8	....	31.6	32.1	32.3	31.7	31.3
27	26.3	27.0	....	28.7	29.9	....	....	31.7	32.1	32.2	31.7	31.3
28	26.4	27.1	....	28.8	29.9	31.0	....	31.7	32.1	32.2	31.6	31.2
29	26.6	....	....	28.5	30.0	31.1	....	31.8	32.1	32.2	31.5	31.1
30	26.7	....	....	28.1	29.9	31.1	31.2	31.8	32.2	32.3	31.4	30.0
31	26.8	....	....	....	29.8	....	31.2	31.8	....	32.3	....	29.0

## Chilton County

Chi-3. U. S. Geol. Survey. Clanton, in waterworks lot. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 35, T. 22 N., R. 14 E. Drilled observation water-table well in sand and gravel, diameter 4 to 2 inches, depth 34 feet, cased to 34, screen 26-32. Land-surface datum is 571.56 feet above msl. Highest water level 2.25 below lsd, May 8, 1951; lowest 9.52 below lsd, Nov. 2-3, 1954. Records available: 1952-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	3.94	....	5.05	6.43	7.33	6.94	8.61	9.18	9.49	9.34
2	....	....	3.97	....	5.24	6.44	7.38	6.97	8.62	9.21	9.52	9.28
3	....	....	4.16	....	5.26	6.50	7.37	7.04	8.63	9.21	9.52	9.26
4	....	....	4.19	....	5.50	6.58	7.38	7.04	8.66	9.24	9.45	9.26
5	....	4.55	4.13	....	5.51	6.64	7.41	7.04	8.70	9.24	9.48	9.22
6	....	4.65	4.12	....	5.66	6.67	7.45	7.05	8.70	9.28	9.47	9.30
7	....	4.65	4.15	....	5.70	6.69	7.50	7.08	8.70	9.32	9.47	9.30
8	4.58	4.52	4.15	....	5.75	6.72	7.52	7.10	8.72	9.31	9.49	9.26
9	4.62	4.56	4.11	....	5.69	6.73	7.53	7.16	8.74	9.29	9.48	9.22
10	4.57	4.77	4.13	....	5.76	6.76	7.49	7.17	8.77	9.27	9.50	9.25
11	4.63	4.86	4.20	....	5.73	6.83	7.47	7.21	8.82	9.29	9.50	9.25
12	4.80	4.82	4.25	....	5.74	6.89	7.47	7.25	8.85	9.33	9.48	9.18
13	4.81	4.78	4.38	....	5.83	6.92	7.53	7.28	8.87	9.34	9.45	9.06
14	4.75	4.78	4.52	....	5.87	6.92	....	7.31	8.89	9.34	9.43	9.07
15	4.67	4.77	4.57	....	5.87	6.92	....	7.31	8.90	9.37	9.40	9.09
16	4.50	4.61	4.57	....	5.88	6.92	....	7.34	8.91	9.40	9.31	9.12
17	4.55	4.58	4.52	....	5.91	6.92	....	7.37	8.92	9.41	9.33	9.08
18	4.48	4.56	4.41	....	5.99	6.92	....	7.38	8.91	9.41	9.34	8.69
19	4.47	4.50	3.93	....	6.07	6.92	....	7.39	8.95	9.42	9.32	8.68
20	4.44	4.11	4.03	....	6.10	7.00	....	7.39	8.98	9.42	9.36	8.69
21	4.47	4.18	4.09	....	6.13	7.04	....	....	9.02	9.44	9.36	8.70
22	4.34	4.18	4.09	....	6.17	7.06	....	....	9.02	9.47	9.36	8.70
23	4.15	3.85	4.11	4.82	6.20	7.09	....	....	9.06	9.47	9.38	8.73
24	4.19	3.90	4.16	4.88	6.23	7.13	....	....	9.07	9.47	9.35	8.76
25	4.20	3.98	4.16	4.88	6.24	7.17	....	....	9.06	9.46	9.38	8.81
26	4.20	3.99	4.05	4.89	6.22	7.19	....	....	9.07	9.47	9.41	8.83
27	4.20	3.97	....	4.89	6.20	7.19	....	....	9.10	9.47	9.37	8.80
28	....	3.94	....	5.00	6.26	7.20	....	....	9.15	9.44	9.31	8.75
29	....	....	....	5.02	6.35	7.20	....	....	9.17	9.48	9.38	8.30
30	....	....	....	5.02	6.38	7.28	6.91	8.50	9.18	9.48	9.38	7.64
31	....	....	....	....	6.41	....	6.94	8.57	....	9.49	....	7.67

## Colbert County

Col-1. U. S. Army, Corps of Engineers. Muscle Shoals. Monsanto Chlorine-Caustic plant. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 30, T. 3 S., R. 10 W. Drilled observation semiartesian well in limestone, diameter 8 inches, depth 265 feet. Land-surface datum is 527.8 feet above msl. Highest water level 6.94 below lsd, Feb. 20, 1953; lowest 37.5 below lsd, Dec. 24, 27-28, 1954. Records available: 1953-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.1	10.2	9.3	13.8	11.2	15.6	23.9	....	33.0	34.8	36.5	36.8
2	31.3	10.3	9.4	13.5	11.4	15.8	24.1	....	33.4	34.8	36.8	36.9
3	31.6	10.6	9.6	13.4	11.2	15.8	23.7	....	33.6	34.9	36.8	37.1
4	31.6	10.9	9.6	13.5	11.0	15.8	24.8	....	33.1	35.6	37.0	37.2
5	31.8	11.1	9.7	13.7	11.1	16.0	24.8	29.3	33.1	....	37.1	37.1



Col-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	32.0	11.4	9.9	13.9	11.2	16.2	24.8	29.3	33.1	....	37.1	36.4
7	32.1	11.6	10.0	14.2	11.5	16.4	24.9	29.4	33.9	....	37.2	35.7
8	32.2	11.7	10.2	14.5	11.7	16.7	25.2	29.5	34.0	....	37.3	35.8
9	32.2	12.0	10.3	14.7	12.0	16.9	25.0	29.7	34.1	....	37.2	35.7
10	32.2	12.3	10.4	14.9	12.2	17.2	25.1	30.1	34.1	....	37.4	35.8
11	31.7	12.6	10.6	15.0	12.4	17.5	25.4	30.0	33.8	....	37.2	35.8
12	32.0	12.7	10.9	15.1	12.6	17.8	25.7	30.1	33.7	....	37.3	36.0
13	32.1	12.8	11.2	15.1	12.7	18.1	25.9	30.7	34.1	35.3	37.2	36.4
14	31.9	13.1	11.4	15.3	11.7	18.5	26.2	30.5	34.5	35.4	37.2	36.7
15	29.7	13.3	11.7	15.3	11.1	19.0	26.4	30.6	34.7	35.5	37.2	37.4
16	20.5	13.3	11.9	13.5	10.9	19.3	26.6	31.3	34.8	35.6	36.9	37.4
17	16.6	12.4	12.0	10.1	11.0	19.5	26.4	31.6	34.9	35.8	36.6	36.9
18	16.2	12.1	12.1	10.0	11.1	19.9	26.6	31.7	34.3	35.9	36.6	36.8
19	16.5	12.1	12.4	9.1	11.3	19.9	27.1	31.7	34.1	35.9	36.4	36.9
20	16.7	8.8	12.7	9.3	11.6	20.1	27.3	31.3	34.7	35.9	36.3	37.0
21	11.2	8.8	12.9	9.4	11.8	20.7	....	21.4	34.3	36.0	36.4	37.1
22	....	8.9	13.0	9.6	11.9	21.2	....	31.6	34.2	36.0	36.5	37.2
23	....	9.0	13.3	9.9	13.1	21.6	....	31.7	34.2	36.1	36.6	37.3
24	....	8.8	13.5	10.1	13.3	21.6	....	31.8	34.3	36.1	36.9	37.5
25	9.3	9.0	13.7	10.3	13.6	21.8	....	31.9	34.4	36.1	37.1	37.4
26	9.4	9.1	13.7	10.5	13.9	21.9	28.1	32.0	34.5	....	37.3	37.4
27	9.5	9.3	13.6	10.8	14.1	22.0	28.4	32.1	34.5	....	37.1	37.5
28	9.7	9.2	13.7	10.9	14.4	22.8	28.8	32.1	34.6	36.2	37.0	37.5
29	9.7		13.9	10.9	14.8	23.2	....	....	34.8	36.2	36.7	34.0
30	10.0		14.1	11.1	15.1	23.7	....	....	34.8	36.2	36.7	18.7
31	10.1		14.3		15.3		....	32.6		36.4		17.5

Cullman County

Cul-1. City of Cullman. Second St. and Third Ave., West. Drilled observation water-table well in sandstone, diameter 8 inches, depth 81 feet, cased to 13. Land-surface datum is 768 feet above msl. Highest water level 17.4 below lsd, Dec. 18, 1954; lowest 26.62 below lsd, Aug. 6, 1952. Records available: 1952-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.9	18.6	18.1	18.1	18.4	17.9	19.2	19.9	19.7	20.9	21.0	18.3
2	18.8	18.4	18.1	18.1	18.3	17.9	19.3	19.8	19.9	21.0	21.4	18.2
3	19.0	18.5	....	18.1	18.1	17.7	19.2	19.9	19.8	20.9	21.5	18.1
4	18.9	18.6	....	18.1	18.1	17.9	19.2	19.9	19.9	20.5	21.1	17.9
5	18.8	18.6	....	18.2	18.2	18.0	19.0	19.9	20.1	20.4	19.8	17.8
6	19.0	18.7	....	18.2	18.2	18.1	19.2	19.8	20.1	20.6	19.8	18.2
7	19.0	18.7	18.1	18.2	18.3	18.1	19.3	19.8	19.8	21.2	20.0	18.3
8	19.0	18.6	18.1	18.2	18.3	18.1	19.3	19.8	19.7	21.4	20.3	18.0
9	18.9	18.4	18.1	18.1	18.4	18.1	19.3	19.9	19.7	21.2	20.4	17.9
10	18.8	18.4	18.0	18.1	18.4	18.2	19.3	20.0	19.6	20.6	20.6	17.9
11	19.0	18.9	18.1	18.1	18.3	18.1	19.4	20.0	20.3	20.0	20.8	17.9
12	19.1	18.9	18.1	18.2	18.2	18.2	19.3	20.2	20.9	20.1	20.4	17.7
13	19.1	18.7	18.1	18.1	18.1	18.3	19.4	20.2	21.2	20.6	19.8	17.6
14	18.9	18.6	18.1	18.0	18.2	18.2	19.4	20.1	21.4	20.7	19.5	17.6
15	18.4	18.6	....	18.1	18.2	18.2	19.4	20.0	21.3	20.4	19.0	17.8
16	18.4	18.7	....	18.0	18.2	18.2	19.5	19.9	21.4	21.2	18.0	17.8
17	18.5	18.7	....	18.0	18.1	18.3	19.5	19.9	21.5	21.4	17.9	17.6
18	18.5	18.5	18.0	18.2	18.1	18.5	19.6	19.7	21.4	21.5	17.9	17.4
19	18.5	18.5	17.6	18.2	18.3	18.5	19.5	19.7	21.1	21.6	17.9	17.6
20	18.4	18.2	17.9	18.3	18.4	18.5	19.5	19.9	21.1	21.6	18.2	17.5
21	18.2	18.2	18.1	18.3	18.4	18.5	19.6	20.1	21.0	21.4	18.3	....
22	18.2	18.3	18.2	18.2	18.4	18.5	19.5	20.3	20.9	21.5	18.3	....
23	18.3	18.2	18.1	18.2	18.3	18.5	19.6	20.2	21.3	21.9	18.4	....
24	18.4	18.0	18.1	18.3	18.4	18.5	19.7	20.1	21.5	22.0	18.2	....
25	18.4	17.9	18.1	18.3	18.3	18.5	19.7	19.8	21.4	21.8	18.5	....
26	18.4	18.1	18.1	18.2	18.3	....	19.7	19.9	19.7	21.2	18.6	....
27	18.5	18.0	18.1	18.2	18.3	....	19.8	20.0	19.5	21.1	18.3	....
28	18.6	17.9	17.5	18.1	18.1	19.0	19.8	20.0	19.7	21.1	17.9	....
29	18.5		17.7	18.3	17.8	19.1	19.9	....	20.5	20.3	18.7	....
30	18.6		17.8	18.4		19.1	20.0	....	20.8	20.5	18.8	....
31	18.7		18.0		18.0		20.0	....		20.9		....

Dallas County

Dls-2. City of Selma. In waterworks lot. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 31, T. 17 N., R. 11 E. Drilled artesian observation well in sand, diameter 6 inches, depth 420 feet. Land-surface datum is 125 feet above msl. Highest water level 13.49 below lsd, Feb. 17, 1946; lowest 39.1 below lsd, Aug. 11, 1953. Records available: 1941, 1945-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	19.9	20.3	22.2	24.2	26.6	35.5	34.9	36.6	36.0	27.9	25.2
2	....	20.4	20.2	23.5	23.5	27.6	36.2	35.2	36.6	36.0	27.9	24.3
3	....	20.5	20.2	22.3	23.4	26.8	35.2	35.6	37.3	34.8	27.9	24.2
4	21.6	20.8	20.4	21.6	23.6	28.4	34.1	35.9	....	35.8	27.6	24.2
5	21.7	21.0	20.4	21.1	23.7	28.5	33.9	36.2	....	36.2	27.4	23.5
6	22.0	21.2	20.4	22.3	23.7	28.4	32.9	36.5	36.3	36.4	27.1	23.3
7	22.1	20.0	20.2	24.4	24.0	27.9	33.6	37.0	36.5	34.4	26.5	23.9
8	22.1	20.9	20.2	23.6	24.4	29.0	33.3	36.9	36.8	33.8	26.5	24.0
9	22.3	21.0	20.5	23.3	24.5	29.6	33.1	35.9	37.2	34.1	26.5	23.9
10	22.2	21.1	20.7	23.4	25.2	30.1	32.7	36.8	....	33.0	26.5	23.9
11	21.9	21.3	20.8	22.6	25.5	30.8	31.5	37.1	....	34.1	26.5	25.1
12	23.2	21.2	20.9	22.8	25.5	31.1	32.7	38.1	....	34.2	27.7	23.9
13	22.1	21.3	21.1	22.4	25.2	28.5	33.5	....	37.5	33.6	27.9	23.2
14	20.0	21.1	20.7	23.1	24.6	29.2	34.3	....	37.9	33.8	27.8	24.4
15	20.0	21.1	20.7	24.9	23.9	30.0	34.3	....	38.4	33.0	27.3	23.5
16	20.0	21.3	20.9	23.2	23.5	30.1	33.2	36.1	38.2	32.5	27.2	24.7
17	21.5	21.3	20.8	22.6	23.3	28.6	32.8	36.5	35.2	32.0	26.0	24.7
18	21.0	21.3	20.8	22.6	24.7	27.9	31.5	36.6	35.9	31.5	26.7	24.5
19	21.0	21.2	20.8	22.4	24.5	29.3	31.3	36.8	35.4	31.3	26.9	24.2
20	20.7	21.3	20.6	22.5	24.5	28.3	32.2	36.9	35.5	30.6	25.6	24.3
21	21.8	20.6	20.3	23.6	24.7	30.2	32.4	36.4	36.1	31.2	25.5	24.7
22	20.6	20.5	20.4	23.5	25.5	31.1	32.3	34.6	35.1	31.2	24.7	24.7
23	20.7	20.6	20.6	23.4	25.5	32.0	33.8	35.2	35.5	31.3	24.9	24.6
24	20.0	20.7	20.7	24.7	27.3	32.6	33.3	35.7	36.1	31.0	24.9	24.5
25	20.1	20.7	21.2	23.3	27.9	33.0	33.5	36.6	36.0	30.9	24.7	23.9
26	20.2	20.7	21.2	22.8	27.6	33.7	36.4	36.4	35.6	31.5	24.5	23.9
27	20.2	20.7	21.0	24.2	26.7	34.0	33.5	36.8	35.9	31.4	24.5	23.9
28	20.4	20.4	20.4	25.0	26.1	34.0	34.0	37.0	36.0	30.5	24.0	24.1
29	20.5	....	20.2	24.7	25.4	34.5	34.9	35.1	36.1	29.6	23.9	24.0
30	20.5	....	20.2	23.8	24.4	35.4	34.5	36.0	35.7	29.0	24.9	24.1
31	20.0	....	20.2	....	27.5	....	34.8	36.6	....	28.4	....	24.0

Elmore County

Elm-1. Town of Eclectic. High School. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 14, T. 19 N., R. 20 E. Drilled observation semiartesian well in augen-gneiss, diameter 8 inches, depth 402 feet. Land-surface datum is 557.5 feet above msl. Highest water level 6.96 below lsd, May 10, 1953; lowest 12.76 below lsd, Oct. 29, 1954. Records available: 1953-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	8.55	8.55	8.21	8.41	....	....	....	11.85	12.34	12.40	12.68
2	....	8.55	8.50	8.23	8.46	....	....	....	11.85	12.34	12.38	12.61
3	....	8.56	8.57	8.25	8.46	....	....	....	11.87	12.36	12.42	12.60
4	....	8.57	8.49	8.26	8.46	....	....	....	11.89	12.38	12.39	12.66
5	....	8.57	8.47	8.30	8.49	....	....	....	11.91	12.40	12.39	12.56
6	....	8.63	8.46	8.28	8.53	....	....	....	11.91	12.42	12.39	12.69
7	8.23	8.64	8.46	8.27	8.55	....	....	....	11.94	12.37	12.45	12.71
8	8.33	8.63	8.46	8.25	8.55	....	....	....	11.97	12.41	12.51	12.65
9	8.30	8.65	8.42	8.28	8.59	....	....	....	11.99	12.41	12.52	12.68
10	8.24	8.74	8.40	8.29	8.57	....	....	....	12.00	12.43	12.57	12.68
11	8.32	8.81	8.38	8.31	....	....	....	....	12.06	12.47	12.55	12.65
12	8.38	8.82	8.44	8.35	....	....	....	....	12.09	12.51	12.53	12.57
13	8.39	8.84	8.40	8.37	....	....	....	....	12.12	12.52	12.53	12.57
14	8.38	8.86	8.43	8.42	....	....	....	....	12.13	12.52	12.48	12.52
15	8.34	8.87	8.47	8.42	....	....	....	....	12.13	12.49	12.43	12.56
16	8.44	8.86	8.46	8.28	....	....	....	....	12.19	12.52	12.44	12.56
17	8.46	8.85	8.44	8.28	....	....	....	....	12.16	12.56	12.45	12.52
18	8.47	8.85	8.38	8.28	....	....	....	....	12.17	12.56	12.44	12.47
19	8.46	8.80	8.33	8.27	....	....	....	....	12.20	12.57	12.45	12.52
20	8.46	8.75	8.36	8.27	....	....	....	....	12.23	12.58	12.51	12.53

## Elm-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	8.41	8.76	8.34	8.25	....	....	....	....	12.28	12.58	12.54	12.54
22	8.41	8.70	8.32	8.24	....	....	....	....	12.28	12.64	12.56	12.53
23	8.40	8.62	8.32	8.25	....	....	....	....	12.29	12.66	12.57	12.53
24	8.41	8.59	8.31	8.21	....	....	....	....	12.33	12.70	12.60	12.57
25	8.40	8.61	8.28	8.22	....	....	....	....	12.36	12.71	12.61	12.58
26	8.41	8.62	....	8.22	....	....	....	....	12.38	12.75	12.65	12.58
27	8.45	8.60	8.21	8.29	....	....	....	11.70	12.39	12.72	12.65	12.58
28	8.46	8.56	8.21	8.31	....	....	....	11.73	12.40	12.71	12.65	12.56
29	8.48	....	8.18	8.35	....	....	....	11.72	....	12.76	12.67	12.47
30	8.53	....	8.19	8.41	....	....	....	11.76	12.27	12.40	12.69	12.47
31	8.56	....	8.20	....	....	....	....	11.81	....	12.39	....	12.46

## Greene County

Gre-2. W. F. Bell. Boligee. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 31, T. 21 N., R. 1 E. Drilled public-supply artesian flowing well in sand, diameter 3 inches, depth 560 feet. Land-surface datum is 117.13 feet above msl. Highest water level 8.59 above lsd, July 21, 1941; lowest 3.64 above lsd, Dec. 28, 1954. Records available: 1940-42, 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	+5.89	Apr. 27	+5.79	July 26	+5.82	Oct. 27	+5.69
Feb. 23	+5.89	May 28	+5.89	Aug. 30	+5.96	Nov. 26	+5.82
Mar. 25	+5.89	June 28	+5.54	Sept. 24	+5.59	Dec. 28	+3.64

Gre-3. U. S. Geol. Survey. Eutaw, Roberts Street sewage plant. Drilled observation artesian well in sand, diameter 4 to 2 inches, depth 407 feet, cased to 407, screen 393-405. Land-surface datum is 172.14 feet above msl. Highest water level 35.94 below lsd, Apr. 2, 1953; lowest 38.59 below lsd, Oct. 7-12, 1954. Records available: 1952-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.75	....	36.34	36.36	36.58	36.75	37.41	37.88	38.35	38.55	38.48	38.18
2	36.74	....	36.33	36.36	36.57	36.77	37.46	37.90	38.37	38.56	38.47	38.18
3	36.72	....	36.33	36.36	36.57	36.78	37.51	37.91	38.38	38.56	38.47	38.17
4	36.73	....	36.33	36.37	36.57	36.79	37.55	37.92	38.40	38.56	38.45	38.16
5	36.69	....	36.33	36.42	36.56	36.80	37.59	37.92	38.42	38.57	38.45	38.15
6	36.69	....	36.34	36.53	36.55	36.81	37.62	37.93	38.44	38.58	38.44	38.14
7	36.68	....	36.34	36.53	36.55	36.82	37.65	37.94	38.46	38.59	38.43	38.13
8	36.68	....	36.34	36.59	36.54	36.84	37.69	37.95	38.48	38.59	38.42	38.13
9	36.68	....	36.34	36.63	36.54	36.85	37.70	37.96	38.48	38.59	38.41	38.12
10	36.68	....	36.34	36.66	36.54	36.88	37.71	37.97	38.49	38.59	38.41	38.11
11	36.67	....	36.34	36.67	36.53	36.90	37.72	37.99	38.50	38.59	38.40	38.11
12	36.66	....	36.34	36.68	36.53	36.93	37.72	38.01	38.50	38.59	38.40	38.11
13	36.66	....	36.34	36.69	36.52	36.95	37.73	38.04	38.50	38.58	38.40	38.10
14	36.65	....	36.34	36.69	36.53	36.97	37.74	38.06	38.51	38.58	38.40	38.09
15	36.65	....	36.34	36.69	36.54	37.00	37.76	38.07	38.52	38.58	38.49	38.09
16	36.64	....	36.35	36.69	36.55	37.03	37.77	38.10	38.52	38.57	38.38	38.09
17	36.64	....	36.36	36.68	36.56	37.07	37.78	38.12	38.53	38.57	38.37	38.09
18	36.63	....	36.36	36.67	36.57	37.10	37.78	38.15	38.53	38.56	38.34	38.08
19	36.61	....	36.36	36.66	36.58	37.13	37.78	38.17	38.53	38.55	38.33	38.08
20	36.61	....	36.36	36.65	36.59	37.14	37.79	38.19	38.53	38.54	38.31	38.07
21	36.59	....	36.36	36.64	36.60	37.15	37.79	38.19	38.53	38.53	38.30	38.07
22	36.58	....	36.36	36.63	36.62	37.17	37.80	38.19	38.53	38.52	38.28	38.06
23	36.56	36.38	36.36	36.63	36.63	37.19	37.81	38.20	38.53	38.52	38.27	38.06
24	36.55	36.38	36.36	36.62	36.65	37.20	37.82	38.20	38.54	38.52	38.25	38.05
25	36.54	36.37	36.37	36.62	36.66	37.22	37.82	38.21	38.54	38.52	38.25	38.05
26	36.52	36.37	36.37	36.61	36.68	37.25	37.81	38.21	38.54	38.51	38.24	38.05
27	36.50	36.35	36.38	36.60	36.70	37.28	37.82	38.22	38.54	38.51	38.23	38.05
28	36.49	36.35	36.38	36.60	36.70	37.29	37.83	38.24	38.54	38.51	38.22	38.04
29	....	....	36.37	36.59	36.71	37.32	37.84	38.27	38.54	38.51	38.20	38.04
30	....	....	36.37	36.58	36.73	37.37	37.85	38.30	38.55	38.50	38.19	38.03
31	36.55	....	36.36	....	36.74	....	37.87	38.32	....	38.49	....	38.02

Jackson County

Jac-1. Tennessee Valley Authority well 28. Scottsboro. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 4 S., R. 6 E. Drilled observation water-table well in chert, diameter 8 inches, depth 16 feet. Land-surface datum is 641.88 feet above msl. Highest water level 1.64 below lsd, Feb. 26, 1944; lowest dry Oct. 4-Nov. 22, 1954. Records available: 1936-41, 1943-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	4.80	Apr. 12	4.96	July 12	8.98	Oct. 11	(f)
11	4.70	19	5.09	19	9.22	18	(f)
18	4.67	26	6.74	26	9.50	27	(f)
25	3.73	May 3	6.76	Aug. 2	9.64	Nov. 1	(f)
Feb. 1	3.69	10	6.90	9	9.74	8	(f)
8	3.73	17	7.10	16	10.00	15	(f)
15	3.75	25	7.55	23	10.41	22	(f)
22	3.87	31	7.82	30	10.64	29	13.74
Mar. 1	4.79	June 7	7.90	Sept. 6	10.94	Dec. 6	13.74
8	4.78	14	8.20	13	10.50	13	12.68
15	4.87	21	8.48	20	11.70	20	11.72
22	4.90	26	8.70	27	12.72	27	10.87
Apr. 5	4.87	July 5	8.84	Oct. 4	(f)		

f Dry.

Jefferson County

Jef-1. U. S. Geol. Survey. Birmingham. Songo test well 2. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 29, T. 18 S., R. 3 W. Drilled artesian well in Bangor limestone, diameter 6 inches, depth 140 feet. Land-surface datum is 641.94 feet above msl. Highest water level 56.88 below lsd, June 22, 1954; lowest 83.04 below lsd, Dec. 27-28, 1954. Records available: 1954.

Daily lowest water level from recorder graph\*

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	58.92	65.68	71.40	75.65	79.04	81.57
2	.....	59.05	65.91	71.57	75.77	79.17	81.64
3	.....	59.25	66.02	71.74	75.89	79.22	81.68
4	.....	59.45	66.23	71.90	76.01	79.32	81.77
5	.....	59.71	66.44	72.08	76.15	79.42	81.84
6	.....	59.79	66.65	72.18	76.26	79.52	81.96
7	.....	60.03	66.89	72.41	76.42	79.64	82.00
8	.....	60.27	67.07	72.60	76.52	79.73	82.02
9	.....	60.55	67.32	72.71	76.62	79.82	82.10
10	.....	60.81	67.28	72.87	76.73	79.91	82.17
11	.....	61.03	67.47	73.00	76.84	79.99	82.22
12	.....	61.26	67.68	73.15	76.96	80.08	82.27
13	.....	61.37	67.88	73.28	77.04	80.17	82.34
14	.....	61.72	68.07	.....	77.11	80.27	82.40
15	.....	61.87	.....	.....	77.25	80.37	82.48
16	.....	62.10	.....	73.68	77.40	80.43	82.54
17	.....	62.32	.....	73.79	.....	80.49	82.59
18	.....	62.54	.....	73.92	.....	80.62	82.63
19	.....	62.78	69.23	74.06	77.80	80.70	82.68
20	.....	62.91	69.40	74.19	77.87	80.82	.....
21	.....	63.18	69.59	74.35	.....	80.89	82.74
22	56.88	63.49	69.77	74.48	.....	80.97	82.76
23	57.12	63.64	69.88	74.62	.....	81.04	82.83
24	57.35	63.87	70.04	74.75	.....	81.11	82.89
25	57.62	64.10	70.19	74.87	.....	81.19	82.95
26	57.81	.....	.....	74.99	.....	81.25	82.99
27	58.03	64.61	.....	75.12	78.53	81.30	83.03
28	58.26	64.83	.....	75.25	78.63	81.41	83.04
29	58.34	65.08	.....	75.40	78.74	81.52	83.04
30	58.58	65.28	.....	75.53	78.85	81.54	82.87
31	.....	65.49	71.26	.....	78.96	.....	82.51

\* No record for January, February, March, April, and May.

Macon County

Mac-1. Tuskegee Institute. Drilled observation artesian well in sand of Tuscaloosa group, diameter 18 to 8 inches, depth 355 feet. Land-surface datum is 436.47 feet above msl. Highest water level 61.85 below lsd, Sept. 20, 1949; lowest 94.15 below lsd, Jan. 1-2, 1951. Records available: 1948-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	74.30	73.50	74.05	73.95	74.15	74.10	74.25	74.35	75.95	74.50	74.50
2	.....	74.20	73.55	74.10	74.00	74.15	74.15	74.20	74.40	75.15	74.65	74.40
3	.....	74.10	73.70	74.10	73.95	74.10	74.15	74.20	74.45	74.85	74.70	74.35
4	.....	74.05	73.80	74.05	74.05	74.15	74.10	74.25	74.50	74.75	74.65	74.35
5	74.20	74.05	73.80	74.10	74.05	74.30	74.10	74.25	74.55	74.60	74.65	74.30
6	74.25	74.05	73.75	74.10	74.05	74.30	74.05	74.20	74.50	74.60	74.55	74.10
7	74.30	74.15	73.75	74.05	74.05	74.35	74.05	74.20	74.50	74.70	74.55	74.30
8	74.30	74.15	73.70	74.05	74.10	74.30	73.80	74.25	74.50	74.75	74.55	74.30
9	74.25	74.10	73.65	74.15	74.15	74.25	73.90	74.25	74.50	74.75	74.55	74.25
10	74.25	74.00	73.55	74.20	74.20	74.25	74.00	73.80	74.45	74.65	74.60	74.25
11	74.15	74.05	73.50	74.20	74.20	73.80	74.05	74.05	74.45	74.55	74.60	74.30
12	74.35	74.20	73.50	74.15	74.20	74.00	74.10	73.50	74.55	74.50	74.60	74.30
13	74.40	74.30	73.55	74.15	74.10	74.10	74.10	73.90	74.60	74.50	74.55	74.20
14	74.40	74.25	73.75	74.15	73.10	74.15	74.10	73.10	74.60	74.50	74.50	74.15
15	74.30	74.25	73.95	74.10	73.55	74.25	74.10	74.25	74.55	74.45	74.40	74.10
16	74.15	74.25	74.15	74.05	73.75	74.20	74.20	74.30	74.55	74.50	74.25	74.20
17	74.30	74.25	74.20	74.05	73.85	73.95	74.25	74.30	74.55	74.65	74.30	74.15
18	74.30	74.25	74.15	74.15	73.90	74.10	74.25	74.35	74.55	74.70	74.30	74.05
19	74.25	74.25	74.05	74.20	73.80	74.15	74.30	74.35	74.55	74.70	74.30	74.10
20	74.25	74.20	73.75	74.25	73.40	74.20	74.30	74.35	74.50	74.70	74.25	74.15
21	74.20	71.90	73.95	74.25	73.75	74.20	74.25	74.35	74.50	73.65	74.30	74.15
22	74.15	72.55	74.05	74.20	73.95	74.20	74.25	74.40	74.60	74.10	74.35	74.10
23	74.25	72.95	74.00	74.20	74.00	74.20	74.25	74.45	74.60	74.30	74.35	74.05
24	74.30	73.10	74.00	74.20	74.10	73.90	74.05	74.55	74.65	74.50	74.30	74.10
25	74.30	73.20	74.00	74.20	74.15	74.05	74.15	74.55	74.65	74.45	74.30	74.15
26	74.30	73.25	74.05	74.20	74.15	74.15	74.20	74.50	74.65	74.50	74.35	74.20
27	74.25	73.30	74.05	74.10	74.15	74.15	74.20	74.50	74.60	74.50	74.35	74.20
28	74.25	73.30	74.00	74.05	74.10	74.15	74.20	74.55	74.60	74.45	74.25	74.10
29	74.25		74.00	74.00	74.15	74.10	74.25	74.50	74.55	74.25	74.40	74.00
30	74.25		73.90	73.75	74.20	74.10	74.25	74.50	74.50	74.40	74.50	74.10
31	74.25		73.95		74.20		74.25	74.25		74.45		74.10

Madison County

Mad-1. City of Huntsville. City pumping station at Gallatin and Canal Sts. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 36, T. 3 S., R. 1 W. Drilled artesian observation well in Fort Payne chert, diameter 8 inches, depth 140 feet. Land-surface datum is 660.13 feet above msl. Highest water level 49.43 below lsd, Apr. 9, 1951; lowest 59.59 below lsd, Nov. 24, 1954. Records available: 1951-54.

Daily lowest water level from recorder graph, 1951\*

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	50.31	53.66	55.62	55.64	56.27	57.25	57.51	55.49
2	.....	50.39	53.68	55.26	55.69	56.32	57.23	57.23	55.43
3	.....	50.42	.....	55.14	55.71	56.47	57.36	.....	55.53
4	.....	50.51	53.75	54.95	55.78	56.50	57.35	.....	55.48
5	.....	50.62	53.86	54.88	55.83	56.54	57.40	57.04	55.33
6	.....	50.93	53.91	54.87	55.88	56.59	57.41	57.06	55.35
7	.....	51.02	54.04	54.87	.....	56.64	57.42	57.02	54.34
8	.....	51.11	54.13	54.82	.....	56.66	57.45	56.97	55.24
9	49.43	51.19	54.18	54.85	.....	56.71	57.50	56.99	.....
10	49.53	51.30	54.25	54.89	.....	56.75	57.53	57.00	54.45
11	49.61	51.42	54.36	54.90	.....	56.78	.....	56.96	54.44
12	49.59	51.65	54.44	54.92	.....	56.84	.....	57.03	54.34
13	49.62	51.74	54.54	54.98	55.18	56.85	.....	57.03	54.35
14	49.73	51.80	54.60	55.01	55.12	56.91	.....	57.00	54.20
15	49.76	51.91	54.69	55.06	55.12	56.90	57.55	.....	.....
16	49.84	52.02	54.78	55.12	55.16	56.98	57.62	.....	.....
17	.....	52.09	.....	55.18	55.20	56.98	57.61	.....	53.10
18	50.35	52.15	55.08	55.23	55.26	57.03	57.62	.....	53.06
19	50.39	52.29	55.18	55.29	55.32	57.08	57.67	55.53	52.96
20	50.20	52.37	55.25	55.36	55.46	57.08	57.64	55.52	52.82

## Mad-1--Continued.

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	50.19	52.46	55.28	55.42	55.52	57.10	57.67	55.41	.....
22	50.09	52.66	55.39	55.50	55.56	57.11	57.71	55.42	51.91
23	49.88	52.73	55.46	55.62	55.63	57.10	57.72	55.36	51.72
24	49.97	52.83	.....	55.69	55.71	57.14	57.76	55.40	51.75
25	50.01	52.90	55.53	55.72	55.77	57.15	57.79	55.29	51.75
26	50.09	53.05	55.64	55.81	55.86	57.15	57.81	55.35	.....
27	50.10	53.18	55.70	55.90	55.93	57.16	57.79	55.37	.....
28	50.23	53.29	55.80	55.69	56.03	57.21	57.74	55.39	.....
29	50.25	53.41	55.87	55.57	56.10	57.23	57.82	55.40	50.72
30	50.20	53.51	55.83	55.58	56.15	57.21	57.85	55.45	50.64
31	.....	53.58	.....	55.61	56.22	.....	57.74	.....	50.82

\* No record for January, February, and March.

## Daily lowest water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.93	50.46	52.16	50.61	53.13	55.88	56.64	57.38	57.32	57.71	57.46	57.54
2	51.01	50.46	52.13	50.71	53.23	55.90	56.69	57.36	57.29	57.75	57.49	57.46
3	51.11	50.33	52.14	50.78	53.33	56.00	56.70	57.39	57.29	57.76	.....	57.47
4	51.12	50.40	52.13	50.78	53.34	56.02	56.73	57.42	57.28	57.77	.....	57.40
5	51.22	50.50	52.17	50.92	53.48	56.07	56.75	57.48	57.30	57.82	.....	57.30
6	.....	50.43	52.17	50.95	53.57	56.11	56.79	57.43	57.34	57.81	.....	.....
7	51.28	50.61	52.22	51.02	53.69	56.16	56.80	57.44	57.36	57.81	.....	.....
8	51.39	.....	52.24	51.15	53.77	56.17	56.80	57.44	57.41	57.81	.....	56.43
9	51.46	.....	52.17	51.29	53.86	56.23	56.91	57.43	57.45	.....	.....	56.35
10	51.34	.....	52.22	51.33	53.96	56.14	56.87	57.34	57.47	.....	57.58	56.25
11	51.22	50.45	.....	51.42	54.02	56.01	56.90	57.29	57.49	.....	57.55	56.18
12	51.17	50.57	.....	51.50	54.16	56.02	56.91	57.29	57.53	.....	57.52	56.11
13	51.05	50.66	52.13	51.49	54.26	56.04	56.93	57.30	57.55	57.65	57.52	56.04
14	51.12	50.75	52.19	51.62	54.33	56.12	56.96	57.30	57.50	57.60	57.54	55.98
15	51.18	50.81	52.24	51.75	54.39	56.14	56.94	57.32	57.42	.....	57.56	56.00
16	51.21	50.84	52.20	51.84	54.50	56.20	57.00	57.34	57.34	.....	57.58	56.01
17	51.24	51.01	51.32	51.96	.....	56.28	57.05	57.38	57.30	.....	57.66	56.01
18	51.32	51.15	51.33	52.02	.....	56.32	57.01	57.42	57.29	.....	57.67	56.04
19	51.33	51.28	51.38	52.11	54.73	56.44	57.02	57.43	57.31	.....	57.67	56.06
20	51.35	51.36	51.42	52.13	54.83	56.42	56.98	57.44	57.34	.....	57.52	56.07
21	51.43	51.49	51.45	52.25	54.95	56.47	57.11	57.46	57.38	.....	57.51	56.08
22	51.36	51.58	.....	52.36	55.04	56.51	57.13	57.48	57.46	.....	57.55	56.14
23	51.24	51.63	.....	52.47	55.16	56.54	57.14	57.49	57.51	.....	57.57	56.18
24	51.24	51.64	50.01	52.53	55.27	.....	57.17	57.51	57.55	.....	57.60	56.21
25	51.17	51.76	50.09	52.59	55.29	.....	57.26	57.55	57.58	.....	57.62	56.25
26	51.18	51.85	50.11	52.64	55.48	.....	57.23	57.57	57.60	.....	57.55	56.33
27	51.03	51.93	50.20	52.64	55.57	.....	57.20	57.59	57.62	57.29	57.44	56.37
28	50.64	51.97	50.33	52.84	55.64	.....	57.26	57.60	57.65	57.39	57.36	56.38
29	50.55	52.01	50.44	52.95	55.70	.....	57.30	57.62	57.76	57.39	57.30	56.44
30	50.45	.....	50.41	53.06	55.71	.....	57.31	57.56	57.69	57.41	57.29	56.48
31	50.44	.....	50.52	.....	55.82	.....	57.38	57.38	.....	57.43	.....	56.36

## Daily lowest water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.27	52.57	.....	52.02	53.57	54.43	56.62	57.26	57.84	58.01	58.30	58.84
2	.....	52.60	50.34	52.07	53.62	54.50	56.67	57.28	57.87	58.04	58.40	58.89
3	.....	52.62	50.35	52.14	53.68	54.58	56.70	57.31	57.94	58.05	58.40	58.82
4	.....	52.69	50.32	52.23	53.51	54.67	56.76	57.34	57.89	58.01	58.41	.....
5	55.55	52.73	50.25	52.28	53.45	54.77	56.77	57.35	57.86	58.10	58.38	.....
6	55.50	52.72	50.26	52.37	53.45	54.84	56.76	57.35	57.84	58.11	58.39	.....
7	55.46	52.55	50.25	52.48	53.51	54.94	56.77	57.34	57.88	58.14	58.41	58.56
8	55.37	52.48	50.30	52.56	53.55	55.08	56.78	57.36	57.92	58.17	58.41	58.57
9	55.29	52.54	50.40	52.62	53.58	55.20	56.61	57.42	57.95	58.17	58.45	58.42
10	.....	52.50	50.45	52.71	53.63	55.28	56.56	57.47	57.97	58.12	58.45	.....
11	.....	52.46	50.56	52.75	53.71	55.36	56.55	57.51	57.97	58.11	58.60	.....
12	54.16	.....	50.63	52.75	53.80	55.44	56.59	57.55	57.97	58.25	58.57	.....
13	54.05	.....	50.72	52.68	53.85	55.81	56.62	57.58	57.95	58.24	58.62	.....
14	54.01	.....	50.78	52.74	53.89	56.15	56.66	57.60	58.01	58.17	58.64	57.40
15	53.97	.....	50.90	52.76	53.95	.....	56.72	57.63	58.04	58.16	58.50	57.31
16	53.93	50.95	50.99	52.85	53.88	.....	56.75	57.62	58.06	58.18	58.75	57.22
17	53.88	50.99	51.05	52.89	53.88	.....	56.77	57.62	58.09	58.18	58.61	57.19
18	53.77	51.01	51.14	52.98	53.91	.....	56.80	57.66	58.09	58.13	58.85	57.14
19	53.67	51.02	51.26	53.03	53.90	.....	56.84	57.67	58.02	58.21	59.14	57.12
20	53.59	50.97	51.36	53.15	53.89	.....	56.85	57.70	57.88	58.22	58.60	57.11

Mad-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	53.53	.....	51.44	53.21	53.91	.....	56.87	57.71	.....	58.23	58.65	57.16
22	53.43	50.02	51.54	53.29	53.94	56.23	57.15	57.70	.....	58.24	58.53	57.27
23	53.30	49.93	51.54	53.37	53.96	56.27	57.29	57.69	.....	58.25	58.67	57.37
24	.....	49.94	51.55	53.45	53.99	56.33	57.37	57.75	.....	58.25	58.61	57.42
25	.....	50.03	51.59	53.50	54.04	56.39	57.40	57.78	.....	58.24	58.67	57.48
26	52.57	50.11	51.64	53.59	54.09	56.43	57.13	57.79	.....	58.28	.....	57.53
27	52.55	50.20	51.64	53.68	54.15	56.46	57.15	57.80	.....	58.27	.....	57.60
28	52.56	50.22	51.71	53.75	54.24	56.52	57.15	57.79	57.93	58.32	.....	57.66
29	52.55	.....	51.77	53.82	54.26	56.56	57.19	57.80	57.96	58.33	.....	57.66
30	52.55	.....	51.84	53.79	54.31	56.61	57.22	57.81	57.99	58.31	58.85	57.67
31	52.55	.....	51.92	.....	54.36	.....	57.24	57.82	.....	58.30	.....	57.67

Daily lowest water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.66	52.62	54.22	55.70	55.64	.....	57.42	57.94	58.45	59.10	.....	59.38
2	57.68	52.62	54.21	55.63	55.62	.....	57.41	57.97	58.51	59.01	.....	59.39
3	57.73	52.70	54.27	55.60	55.63	.....	57.43	58.02	58.55	58.85	.....	59.43
4	57.76	52.76	54.31	55.57	.....	.....	57.38	58.04	58.58	59.25	.....	59.50
5	57.80	52.88	54.31	55.58	.....	.....	57.48	58.09	58.38	59.35	.....	59.28
6	57.85	52.91	54.32	55.56	.....	.....	57.45	58.04	58.60	59.23	.....	59.13
7	57.87	52.98	54.33	55.57	.....	56.17	57.46	58.06	58.69	.....	.....	59.14
8	57.90	53.05	54.40	55.64	.....	56.18	57.50	58.02	58.63	.....	.....	59.15
9	57.92	53.11	54.41	55.62	.....	56.22	57.54	58.10	58.65	.....	59.41	58.94
10	57.92	53.18	54.45	55.64	.....	56.24	57.56	58.25	58.70	.....	59.44	58.68
11	57.96	53.36	54.49	55.65	.....	56.32	57.59	58.16	58.62	.....	59.61	58.70
12	57.93	53.43	54.58	55.71	.....	56.37	57.62	58.20	58.46	.....	59.58	58.70
13	57.91	53.46	54.62	55.71	.....	56.41	57.66	58.22	58.72	.....	59.53	58.62
14	57.89	53.48	54.71	55.75	.....	56.48	57.68	58.22	58.77	.....	59.15	.....
15	57.76	53.59	54.80	55.79	.....	56.48	57.68	58.16	58.79	.....	59.50	59.02
16	.....	53.66	54.86	55.78	.....	56.55	57.72	58.19	58.78	.....	.....	59.07
17	.....	53.74	54.90	55.67	.....	56.60	57.79	58.33	58.77	.....	59.24	51.01
18	55.37	53.78	54.93	55.60	.....	56.68	57.73	58.32	58.81	.....	59.25	.....
19	55.27	53.86	54.98	55.61	.....	56.71	57.77	58.23	58.58	.....	59.22	.....
20	55.18	53.88	55.09	55.60	.....	56.75	57.80	58.29	58.84	.....	59.19	.....
21	55.05	53.93	55.18	55.56	.....	56.84	57.83	58.32	58.76	.....	59.06	.....
22	.....	54.00	55.25	55.50	.....	.....	57.81	.....	58.71	.....	59.42	58.45
23	52.35	54.03	55.27	55.57	.....	.....	57.83	.....	58.85	.....	59.45	58.51
24	52.30	54.03	55.34	55.57	.....	57.01	57.85	.....	58.85	.....	59.59	58.57
25	52.37	54.07	55.43	55.58	.....	57.12	57.84	.....	58.86	.....	59.23	58.58
26	52.44	54.14	55.48	55.59	.....	57.16	57.88	.....	58.71	.....	59.52	58.64
27	52.47	54.14	55.49	55.60	.....	57.16	57.89	.....	58.98	.....	59.40	58.81
28	52.54	54.18	55.63	55.64	.....	57.28	57.91	.....	59.05	.....	59.06	58.82
29	52.59	.....	55.65	55.64	.....	57.34	57.94	.....	59.07	.....	59.44	57.67
30	.....	.....	55.11	55.64	.....	57.37	57.97	.....	59.12	.....	59.39	57.22
31	.....	.....	55.75	.....	.....	.....	57.97	.....	.....	.....	.....	.....

Marion County

Mar-1. M. M. Burleson. Guin. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 32, T. 12 S., R. 13 W. Drilled observation artesian well in sandstone, diameter 6 inches, depth 520 feet, cased to 80. Land-surface datum is 452 feet above msl. Highest water level 6.74 below lsd, Mar. 18, 1952; lowest 11.76 below lsd, Nov. 10, 1954. Records available: 1952-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.83	9.60	10.08	.....	9.67	9.52	10.40	10.83	11.37	11.57	11.71	11.61
2	10.77	9.57	10.15	.....	9.62	9.52	10.40	10.85	11.37	11.56	11.75	11.56
3	10.85	9.66	10.19	10.09	9.49	9.56	10.38	10.91	11.40	11.56	11.75	11.52
4	10.80	9.72	10.14	10.11	9.45	9.62	10.36	10.92	11.44	11.57	11.65	11.52
5	10.82	9.73	10.07	10.11	9.33	9.64	10.40	10.92	11.45	11.58	11.68	11.60
6	10.89	9.82	10.07	10.08	9.28	9.64	10.43	10.94	11.44	11.61	11.65	11.65
7	10.86	9.86	10.05	10.14	9.32	9.65	10.47	10.97	11.37	11.65	11.69	11.61
8	10.84	9.75	10.02	.....	9.32	9.67	10.50	11.00	11.40	11.66	11.71	11.54
9	10.84	9.75	9.99	10.18	9.33	9.70	10.54	11.06	11.40	11.63	11.72	11.61
10	10.83	9.80	10.02	10.16	9.33	9.75	10.58	11.07	11.46	11.59	11.76	11.60

## Mar-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	10.95	.....	10.09	10.19	9.28	9.78	10.57	11.08	11.49	11.58	11.74	11.56
12	10.97	.....	10.17	.....	9.23	9.84	10.58	11.09	11.49	11.62	11.70	11.47
13	10.94	.....	10.28	.....	9.26	9.86	10.61	11.12	11.59	11.62	11.69	11.50
14	10.85	9.97	10.34	.....	9.29	9.87	10.62	11.14	11.50	11.63	11.68	11.49
15	10.71	9.98	10.34	.....	9.28	9.87	10.63	11.15	11.51	11.63	11.65	11.55
16	10.59	10.03	.....	.....	9.27	9.89	10.60	11.00	11.52	11.68	11.59	11.55
17	10.53	10.02	.....	.....	9.25	9.98	10.62	11.14	11.52	11.68	11.59	11.47
18	10.42	9.98	.....	.....	9.26	9.98	10.62	11.16	11.53	11.68	11.59	11.53
19	10.37	9.93	.....	9.58	9.35	9.98	10.61	11.16	11.55	11.69	11.58	11.55
20	10.29	10.06	.....	9.62	9.36	9.98	.....	11.19	11.54	11.66	11.62	11.55
21	10.28	10.10	.....	9.57	9.38	10.02	.....	11.23	11.53	11.65	11.61	11.53
22	10.09	10.12	.....	9.58	9.38	10.05	.....	11.25	11.54	11.70	11.62	11.51
23	10.04	10.06	.....	9.59	9.38	10.10	.....	11.25	11.55	11.71	11.61	11.54
24	10.04	10.00	.....	9.58	9.39	10.14	.....	11.21	11.53	11.70	11.62	11.60
25	9.80	10.01	10.23	9.58	9.41	10.19	.....	11.24	11.53	11.67	11.65	11.60
26	9.73	10.04	10.26	9.57	9.42	10.22	10.71	11.26	11.51	11.67	11.64	11.61
27	9.70	10.03	10.23	9.56	9.43	10.25	10.76	11.30	11.51	11.68	11.58	11.59
28	9.69	10.08	10.12	9.57	9.42	10.29	10.78	.....	11.54	11.63	11.65	11.54
29	9.57	.....	10.07	9.62	9.50	10.34	10.80	.....	11.56	11.67	11.70	11.35
30	9.62	.....	.....	9.64	9.57	10.37	10.84	.....	11.57	11.69	11.70	11.27
31	9.64	.....	.....	.....	9.57	.....	10.85	11.35	.....	11.71	.....	11.15

## Mobile County

Mob-1. Courtaulds, Inc. Salco. Test well 9. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 7, T. 1 S., R. 1 E. Drilled observation water-table well in sand and gravel, diameter 12 inches, depth 122 feet. Land-surface datum is 43.1 feet above msl. Highest water level 38.50 below lsd, Sept. 22, 1954; lowest 40.36 below lsd, Dec. 29-30, 1954. Records available: 1954.

## Daily lowest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 15	39.82	Oct. 15	39.31	Nov. 10	39.75	Dec. 6	39.46
16	39.95	16	39.01	11	39.78	7	39.41
17	39.97	17	39.22	12	39.80	8	39.53
22	38.62	18	39.34	13	39.37	9	39.75
23	38.87	19	39.37	14	39.51	10	39.66
24	39.03	20	39.03	15	39.62	11	39.66
25	39.08	21	39.14	16	39.66	12	39.74
26	38.72	22	39.07	17	39.41	13	39.86
27	38.95	23	39.15	18	39.69	14	39.88
28	39.10	24	38.96	19	39.65	15	39.76
29	39.17	25	39.10	20	39.72	16	39.81
30	38.86	26	39.29	21	39.47	17	39.70
Oct. 1	39.06	27	39.38	22	39.52	18	39.75
2	39.17	28	39.12	23	39.67	19	39.76
3	39.19	29	39.20	24	39.69	20	39.87
4	38.76	30	39.32	25	39.44	21	39.98
5	39.00	31	39.37	26	39.60	22	40.05
6	39.19	Nov. 1	39.12	27	39.70	23	39.86
7	39.22	2	39.33	28	39.72	24	39.94
8	38.88	3	39.34	29	39.47	25	40.08
9	39.09	4	39.46	30	39.36	26	40.18
10	39.22	5	39.21	Dec. 1	39.10	27	40.25
11	39.26	6	39.38	2	38.90	28	40.30
12	39.91	7	39.52	3	38.96	29	40.36
13	39.12	8	39.62	4	39.20	30	40.36
14	39.27	9	39.69	5	39.39	31	40.07

## Monroe County

Mon-3. U. S. Geol. Survey. Monroeville. American Legion Club. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 2, T. 6 N., R. 7 E. Drilled observation semiartesian well in sand and gravel of Miocene and Pliocene ages and limestone of Eocene and Oligocene ages, diameter 6 inches, depth 128 feet, cased to 88, open hole. Land-surface datum is 408 feet above msl. Highest water level 59.75 below lsd, May 11, 1954; lowest 64.71 below lsd, Jan. 24, 1953. Records available: 1953-54.



Mon-3--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	60.77	60.61	60.08	59.81	59.97	60.44	60.94	61.56	62.22	62.92	63.58
2	.....	60.74	60.65	60.08	59.81	59.99	60.43	60.96	61.58	62.27	62.95	63.61
3	.....	60.78	60.53	60.04	59.81	60.01	60.44	60.99	61.60	62.28	62.98	63.63
4	.....	60.76	60.50	60.02	59.80	60.04	60.44	61.01	61.63	62.29	63.01	63.65
5	.....	60.73	60.47	60.00	59.80	60.05	60.50	61.02	61.64	62.31	63.01	63.71
6	.....	60.74	60.45	59.97	59.80	60.06	60.50	61.03	61.67	62.37	63.03	63.73
7	61.22	60.75	60.41	59.96	59.82	60.08	60.50	61.06	61.70	62.38	63.07	63.74
8	61.22	60.75	60.39	59.97	59.82	60.09	60.55	61.09	61.71	62.38	63.09	63.80
9	61.20	60.70	60.38	59.97	59.82	60.10	60.55	61.11	61.76	62.39	63.12	63.80
10	61.16	60.70	60.41	59.94	59.83	60.10	60.57	61.12	61.76	62.40	63.13	63.80
11	61.19	60.77	60.41	59.93	59.78	60.12	60.59	61.14	61.80	62.43	63.15	63.80
12	61.15	60.77	60.40	59.93	59.80	60.15	60.60	61.18	61.83	62.46	63.17	63.86
13	61.13	60.74	60.40	59.90	59.83	60.16	60.62	61.18	61.84	62.49	63.19	63.87
14	61.07	60.72	60.35	59.90	59.86	60.15	60.65	61.21	61.86	62.51	63.21	63.90
15	61.04	60.72	60.32	59.89	59.86	60.17	60.65	61.22	61.88	62.55	63.26	63.94
16	61.07	60.72	60.30	59.88	59.85	60.19	60.71	61.24	61.90	62.57	63.28	63.93
17	61.04	60.72	60.30	.....	59.84	60.19	60.70	61.26	61.92	62.58	63.30	63.95
18	61.01	60.72	60.30	.....	59.88	60.19	60.72	61.28	61.94	62.61	63.31	64.00
19	60.99	60.72	60.28	.....	59.89	60.19	60.73	61.30	61.97	62.63	63.35	64.01
20	60.97	60.72	60.27	.....	59.89	60.19	60.75	61.33	61.99	62.64	63.37	64.01
21	60.95	60.72	60.27	.....	59.89	60.20	60.76	61.36	62.01	62.68	63.39	64.03
22	60.95	60.70	60.33	.....	59.92	60.20	60.77	61.37	62.03	62.71	63.41	64.07
23	60.93	60.67	60.28	59.86	59.92	60.39	60.83	61.39	62.05	62.73	63.43	64.09
24	60.91	60.65	60.28	59.85	59.92	60.32	60.82	61.40	62.06	62.74	63.44	64.11
25	60.90	60.64	60.23	59.85	59.91	60.34	60.83	61.43	62.08	62.76	63.46	64.13
26	60.87	60.62	.....	59.83	59.92	60.37	60.85	61.45	62.09	62.79	63.49	64.15
27	60.86	60.60	.....	59.82	59.92	60.37	60.85	61.47	62.12	62.81	63.49	64.18
28	60.85	60.61	60.19	59.83	59.94	60.38	60.87	61.51	62.15	62.84	63.58	64.19
29	60.85	.....	60.12	59.83	59.96	60.35	60.89	.....	62.18	62.87	63.57	64.24
30	60.82	.....	60.09	59.83	59.97	60.40	60.91	61.56	62.20	62.89	63.57	64.24
31	60.80	.....	60.08	.....	59.97	.....	60.92	61.59	.....	62.91	.....	64.29

Montgomery County

Mtg-1. City of Montgomery well 15A. Court and Chandler Sts. Drilled observation artesian well in sand of Tuscaloosa group, diameter 8 inches, depth 639 feet. Land-surface datum is 164.50 feet above msl. Highest water level 102.9 below lsd, Mar. 14, 1951; lowest 144.5 below lsd, Aug. 17-18, 1954. Records available: 1940-41, 1946-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	116.7	120.1	121.3	124.7	130.2	.....	127.9	.....	.....	.....	129.1
2	.....	116.7	120.7	121.9	124.3	132.8	.....	129.5	.....	.....	.....	129.6
3	.....	116.7	121.4	122.1	124.6	134.9	.....	133.5	.....	.....	127.2	129.6
4	.....	116.8	121.9	122.1	124.7	132.5	.....	138.1	.....	.....	127.2	129.0
5	.....	116.9	122.2	122.5	124.3	131.6	.....	140.5	.....	.....	127.1	128.2
6	.....	117.0	122.2	122.7	124.7	.....	.....	142.3	.....	.....	127.0	129.1
7	.....	117.7	121.2	123.0	124.9	.....	.....	142.4	.....	.....	126.9	129.5
8	.....	118.4	121.9	123.2	125.0	.....	.....	137.5	.....	.....	127.0	129.4
9	.....	118.6	122.4	123.5	124.1	.....	.....	138.8	.....	.....	128.3	129.4
10	.....	118.9	122.6	123.6	123.8	.....	.....	136.6	.....	.....	129.1	129.2
11	.....	119.2	122.9	123.3	123.7	.....	.....	136.6	.....	.....	129.6	128.1
12	.....	119.2	123.1	123.6	123.7	.....	.....	137.9	.....	.....	129.9	128.6
13	.....	118.7	123.2	123.8	124.2	.....	.....	140.2	.....	.....	129.9	129.4
14	.....	119.1	121.8	124.0	124.7	131.9	.....	142.5	.....	.....	128.9	129.5
15	.....	120.3	121.3	124.1	124.8	.....	.....	142.0	.....	.....	129.3	129.7
16	.....	120.9	121.4	124.0	124.9	.....	.....	142.1	.....	.....	129.3	129.5
17	.....	121.3	122.2	123.0	125.1	.....	.....	144.5	.....	.....	129.6	128.2
18	.....	121.4	122.5	122.9	125.2	.....	.....	144.5	.....	.....	129.9	127.5
19	.....	120.0	122.5	123.5	125.3	.....	.....	140.1	.....	.....	130.2	127.5
20	.....	118.7	120.0	124.0	125.3	.....	.....	137.3	.....	.....	130.2	127.3
21	119.4	119.3	120.5	124.2	125.5	.....	.....	134.4	.....	.....	129.1	126.6
22	119.5	119.9	121.6	124.4	125.7	.....	.....	134.0	.....	.....	129.5	126.3
23	118.1	.....	121.8	124.6	125.7	.....	.....	136.3	.....	.....	129.5	126.0
24	116.4	119.6	122.4	124.6	125.4	.....	.....	137.3	138.2	.....	129.7	.....
25	116.7	118.3	122.8	123.8	125.6	.....	.....	138.9	138.4	.....	129.8	.....

Mtg-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	116.7	119.5	122.7	124.2	125.7	.....	127.5	139.5	138.4	.....	129.8	.....
27	116.6	119.5	122.7	124.3	125.9	.....	127.7	.....	142.2	.....	129.6	.....
28	115.9	119.0	121.0	124.3	125.9	.....	127.7	139.2	143.9	.....	128.9	.....
29	115.7	.....	118.8	124.5	126.0	.....	127.8	138.5	140.3	.....	129.2	.....
30	115.7	.....	119.7	124.6	126.1	139.9	127.8	135.5	139.5	.....	129.2	.....
31	115.4	.....	120.6	.....	127.5	.....	127.8	138.7	.....	.....	.....	.....

Mtg-2. City of Montgomery well 37. Hunter Loop Rd. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 16 N., R. 17 E. Drilled observation artesian well in sand of Eutaw formation and Tuscaloosa group, diameter 18 inches, depth 680 feet. Land-surface datum is 161.5 feet above msl. Highest water level 67.1 below lsd, Apr. 27, 1952; lowest 115.3 below lsd, Aug. 16, 1954. Records available: 1951-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	83.6	80.3	85.2	.....	85.3	107.3	108.4	.....	.....	.....	90.7
2	.....	83.5	80.5	85.2	.....	86.1	107.6	109.7	.....	.....	.....	90.7
3	.....	83.5	80.5	84.9	.....	.....	107.6	110.7	.....	.....	102.5	90.6
4	.....	83.5	80.0	84.7	.....	.....	106.3	111.7	.....	.....	102.4	90.7
5	.....	83.9	79.3	85.6	.....	.....	104.7	112.0	.....	.....	102.4	90.0
6	.....	83.6	78.3	87.0	.....	.....	103.6	112.5	.....	.....	102.7	88.8
7	.....	82.9	77.1	88.2	.....	87.4	105.4	112.7	.....	117.7	103.0	.....
8	.....	82.4	78.7	88.8	.....	88.0	106.0	111.5	.....	116.6	102.7	.....
9	.....	82.5	79.9	89.8	.....	88.5	105.9	111.2	.....	114.7	101.9	.....
10	.....	82.8	81.3	89.8	.....	89.7	104.9	111.9	.....	113.4	101.2	.....
11	.....	83.9	83.2	89.0	.....	91.0	105.3	113.0	.....	112.3	101.0	.....
12	.....	84.4	84.5	90.2	.....	91.3	106.0	113.9	.....	111.4	100.4	.....
13	.....	84.2	84.6	91.2	.....	86.0	.....	113.7	.....	112.7	99.9	.....
14	.....	83.8	84.6	92.1	81.3	87.4	.....	113.8	.....	.....	99.5	.....
15	.....	84.3	84.6	92.5	81.6	88.7	.....	115.1	.....	.....	99.0	.....
16	.....	85.0	84.2	92.5	81.5	89.5	.....	115.3	.....	.....	98.2	.....
17	.....	85.1	84.5	90.7	.....	89.8	.....	.....	.....	.....	97.3	.....
18	.....	85.0	84.7	88.2	.....	.....	.....	.....	.....	.....	97.0	.....
19	.....	84.7	84.1	.....	.....	.....	.....	.....	.....	.....	96.4	.....
20	.....	84.4	83.7	.....	.....	.....	.....	.....	.....	.....	95.6	.....
21	.....	83.0	83.4	.....	.....	.....	106.4	.....	.....	.....	94.0	.....
22	.....	82.2	83.6	.....	.....	.....	108.2	.....	.....	.....	93.5	.....
23	.....	82.2	84.9	.....	.....	.....	108.2	.....	.....	.....	93.5	.....
24	.....	81.8	.....	.....	82.3	.....	.....	114.9	.....	.....	93.3	.....
25	.....	82.0	.....	.....	82.8	101.4	.....	115.3	.....	.....	92.7	.....
26	.....	82.5	85.9	86.9	83.3	102.1	105.0	.....	115.2	.....	91.1	.....
27	.....	81.9	85.5	87.1	83.8	102.9	105.0	.....	114.9	.....	90.7	.....
28	84.3	81.2	84.5	.....	84.1	103.1	105.0	114.2	.....	.....	89.6	.....
29	84.9	.....	84.6	.....	.....	105.0	105.2	.....	.....	.....	90.3	.....
30	84.7	.....	84.6	.....	.....	106.3	105.6	.....	.....	.....	90.5	.....
31	83.8	.....	85.2	.....	.....	.....	107.8	.....	.....	.....	.....	.....

Mtg-3. U. S. Geol. Survey. Montgomery. Lomax School on Old Hayneville Rd. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 21, T. 16 N., R. 17 E. Drilled observation artesian well in sand of Eutaw formation, diameter 6 to 4 inches, depth 271 feet, cased to 271, screen 210-215, 220-225, 265-270. Land-surface datum is 167.2 feet above msl. Highest water level 18.15 below lsd, May 11, 1953; lowest 30.19 below lsd, Sep. 16-17, 1954. Records available: 1952-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	21.29	20.24	.....	.....	22.71	26.39	26.25	29.67	29.00	26.30	24.62
2	.....	21.24	.....	.....	.....	22.94	26.51	26.39	29.75	29.01	26.33	24.67
3	.....	21.27	.....	.....	.....	23.25	26.52	26.58	29.75	29.04	26.36	24.70
4	.....	21.35	.....	.....	.....	23.44	26.46	26.81	29.74	29.11	26.35	24.72
5	.....	21.37	.....	.....	.....	23.46	26.16	27.24	29.64	29.16	26.30	24.70
6	.....	21.34	.....	.....	.....	23.56	25.87	27.56	29.62	29.23	26.10	24.63
7	.....	21.23	.....	.....	.....	23.68	25.70	27.68	29.65	29.26	26.04	24.56
8	.....	21.14	.....	.....	.....	23.88	25.81	27.77	29.80	29.21	26.01	24.45
9	.....	21.00	.....	.....	.....	24.10	25.82	27.84	30.00	28.71	25.94	24.53
10	.....	21.12	.....	.....	.....	24.37	25.78	27.85	30.08	28.15	25.88	24.57
11	.....	21.39	20.37	.....	.....	24.57	25.67	27.79	30.10	27.67	25.82	24.56
12	.....	21.43	20.75	.....	.....	24.59	25.74	27.90	30.13	27.81	25.76	24.51
13	.....	21.43	20.99	.....	.....	24.58	25.97	28.10	30.06	27.81	25.67	24.33
14	.....	21.37	21.00	.....	.....	24.35	26.28	28.21	29.88	27.81	25.63	24.23
15	.....	21.41	20.98	.....	.....	24.27	26.43	28.22	30.08	27.81	25.53	24.30

## Mtg-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	21.51	20.90	.....	.....	24.38	26.43	28.23	30.19	27.81	25.45	24.35
17	.....	21.55	20.90	.....	.....	24.40	26.20	28.38	30.19	27.56	25.37	24.35
18	.....	21.55	20.57	.....	.....	24.40	25.70	28.41	29.75	27.16	25.30	24.35
19	.....	21.53	20.57	.....	.....	24.22	25.23	28.39	29.43	26.95	25.22	24.26
20	.....	21.37	20.51	.....	.....	23.85	25.65	28.20	29.36	26.92	25.20	24.20
21	21.46	21.10	20.35	.....	.....	23.64	25.99	28.02	29.33	26.91	25.10	24.24
22	21.69	.....	20.24	.....	.....	24.00	26.24	27.70	29.33	26.91	24.94	24.34
23	21.69	.....	.....	.....	.....	24.37	26.23	27.56	29.32	26.87	24.90	24.43
24	21.65	20.69	20.17	.....	.....	24.67	26.19	27.51	29.23	26.81	24.92	24.51
25	21.49	20.66	.....	.....	.....	24.78	26.00	28.02	28.25	26.70	24.92	24.50
26	21.35	20.54	20.36	20.62	22.34	24.95	25.73	.....	28.23	26.81	24.91	24.44
27	21.30	20.53	20.45	20.56	22.43	25.10	25.63	.....	28.18	27.02	24.78	24.26
28	21.37	20.42	.....	20.80	22.50	25.23	25.60	29.34	28.30	27.07	24.63	.....
29	21.43	.....	.....	.....	22.56	25.55	25.75	29.46	28.68	27.06	24.57	.....
30	21.43	.....	.....	.....	22.56	26.06	25.95	29.51	28.89	26.85	24.56	.....
31	21.38	.....	.....	.....	22.62	.....	26.15	29.51	.....	26.55	.....	.....

## Morgan County

Mor-1. Jack Pitts. Pitts Motel on U. S. Highway 31. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 6 S., R. 4 W. Drilled observation artesian well in Tusculmbia limestone, diameter 6 inches, depth 228 feet. Land-surface datum is 588 feet above msl. Highest water level 16.82 below lsd, June 18, 1954; lowest 22.95 below lsd, Sept. 7-8, 1954. Records available: 1954.

## Daily lowest water level from recorder graph\*

Day	June	July	Aug.	Sept.	Oct.	Nov.
1	.....	17.17	22.25	22.62	.....	22.74
2	.....	17.20	22.24	22.73	.....	22.76
3	.....	17.21	22.27	22.77	.....	22.76
4	.....	17.21	22.33	22.83	.....	22.77
5	.....	17.20	22.38	22.83	.....	22.74
6	.....	17.25	22.39	22.77	.....	22.70
7	.....	17.29	22.40	22.95	.....	22.69
8	.....	17.31	22.38	22.95	.....	22.63
9	.....	17.31	22.48	22.86	.....	22.63
10	.....	17.30	22.53	22.86	.....	22.71
11	.....	17.34	22.54	22.81	.....	22.76
12	.....	17.35	22.57	22.76	.....	22.76
13	.....	17.34	22.58	22.71	.....	22.76
14	.....	17.35	22.58	22.70	.....	22.76
15	.....	17.37	22.57	22.66	.....	22.72
16	.....	17.37	22.53	22.62	.....	22.68
17	16.83	17.36	22.49	22.67	.....	22.62
18	16.82	17.34	22.47	22.68	.....	22.56
19	16.84	.....	22.42	22.65	.....	22.54
20	16.85	.....	22.39	22.65	.....	22.54
21	16.87	.....	22.40	22.62	.....	.....
22	16.88	.....	22.40	22.61	.....	.....
23	16.89	.....	22.39	22.62	.....	.....
24	16.90	.....	22.42	.....	.....	.....
25	16.93	.....	22.47	.....	.....	.....
26	16.96	22.17	22.50	.....	.....	.....
27	17.01	22.16	.....	.....	22.60	.....
28	17.05	22.16	.....	.....	22.60	.....
29	17.11	22.19	.....	.....	22.71	.....
30	17.14	22.23	.....	.....	22.72	.....
31	.....	22.24	.....	.....	22.72	.....

\* No record for January, February, March, April, May, and December.

## Pickens County

Pic-3. Reform Gin Co. Drilled observation artesian well in sand, diameter 4 to 2 inches, depth 78 feet. Land-surface datum is 229.73 feet above msl. Highest water level 3.21 below lsd, Apr. 20, 1948; lowest 7.62 below lsd, Oct. 22, 1954. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	5.51	Apr. 27	5.30	Sept. 18	7.50	Nov. 24	7.34
Feb. 23	4.06	May 20	5.52	Oct. 22	7.62	Dec. 22	7.14
Mar. 25	5.32						

Pic-4. Dr. S. R. Parker. Aliceville Internment Camp. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 26, T. 22 S., R. 2 W. Drilled artesian well in sand, diameter 12 to 8 inches, depth 377 feet, cased to 377, screen 280-305, 350-375. Land-surface datum is 158 feet above msl. Highest water level 4.72 above lsd, June 25, 1953; lowest 0.33 above lsd, Aug. 27, 1953. Records available: 1952-54. Jan. 23, +1.12; Feb. 28, +2.20; Mar. 27, +1.57. Measurement discontinued.

#### Talladega County

Tal-1. City of Sylacauga. City brickyard. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 32, T. 21 S., R. 4 E. Drilled observation artesian well in marble of Cambrian or Ordovician age, diameter 14 inches, depth 1,360 feet. Land-surface datum is 541.6 feet above msl. Highest water level 10.50 below lsd, Feb. 1, 1954; lowest 37.70 below lsd, Dec. 16-17, 1954. Records available: 1954.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	12.50	12.85	12.60	12.13	17.63	24.25	26.90	29.55	32.45	.....	36.60
2	.....	12.85	12.75	12.60	12.10	16.90	24.45	27.10	29.65	32.60	.....	36.75
3	.....	12.80	12.87	12.70	12.10	16.60	24.70	27.30	29.85	32.55	.....	37.10
4	.....	11.40	12.86	12.70	12.20	17.40	24.90	27.45	29.90	32.40	34.95	36.80
5	.....	11.30	12.84	12.80	12.25	18.03	25.15	27.60	29.70	32.50	35.20	36.25
6	.....	11.30	.....	13.90	12.30	18.50	25.25	27.65	29.90	32.60	35.25	35.95
7	16.08	12.50	.....	14.50	12.45	18.83	25.40	27.75	29.85	33.05	35.33	36.80
8	16.29	12.55	12.90	13.25	12.43	19.13	25.50	27.85	.....	32.95	35.15	37.08
9	14.80	12.60	12.60	13.25	12.50	19.45	25.65	27.85	.....	32.65	34.93	36.75
10	14.28	12.70	.....	13.25	12.60	19.55	25.85	27.70	30.55	32.95	35.10	36.70
11	.....	13.00	13.00	13.25	12.65	20.13	26.05	28.20	30.70	33.25	35.25	36.65
12	15.75	13.20	13.20	13.35	12.70	20.55	26.25	28.35	30.75	33.35	35.23	36.50
13	16.30	13.30	13.30	14.50	12.75	21.00	26.40	27.75	30.80	33.40	35.28	36.75
14	16.00	13.30	13.60	14.85	12.90	21.35	26.60	28.15	31.00	33.40	35.25	37.40
15	16.40	13.30	12.70	13.70	13.03	21.45	26.05	28.40	31.40	33.55	35.35	37.60
16	16.10	13.35	12.90	13.40	13.03	20.65	26.10	28.55	31.05	33.55	35.38	37.70
17	15.00	.....	12.90	12.90	13.15	20.30	26.30	28.60	31.20	33.65	35.48	37.70
18	15.00	.....	12.95	12.90	13.27	20.55	26.40	26.70	31.15	33.95	35.57	36.70
19	14.80	15.00	13.60	13.00	13.40	20.83	26.55	26.25	31.20	34.00	35.88	37.00
20	14.75	14.95	14.45	13.05	13.45	21.10	26.70	26.60	31.25	34.20	36.13	37.25
21	14.70	14.90	14.95	13.07	13.57	21.35	26.80	26.65	31.40	34.20	36.15	37.40
22	14.30	15.00	15.30	13.13	13.65	21.65	26.80	27.50	.....	34.20	36.20	37.50
23	12.85	14.55	15.00	13.18	13.73	21.90	25.75	27.90	31.70	34.20	36.25	37.30
24	12.80	14.20	13.95	13.30	13.83	22.10	25.10	28.25	31.65	34.25	36.48	37.35
25	12.70	13.60	13.50	12.93	14.95	22.45	24.95	28.60	31.85	34.45	36.40	36.95
26	12.80	13.60	13.50	13.03	15.93	22.75	24.35	28.80	32.00	34.45	36.50	37.15
27	12.75	13.60	13.25	13.00	16.05	23.05	25.65	29.05	32.15	34.55	36.50	37.00
28	12.85	13.20	12.40	12.98	14.90	23.40	26.00	29.15	32.30	34.45	36.25	37.10
29	13.00	.....	12.90	12.70	16.03	23.70	26.30	29.35	32.40	.....	36.57	36.35
30	12.80	.....	13.95	12.15	16.80	24.00	26.55	29.35	32.40	.....	36.55	35.80
31	11.90	.....	12.65	.....	17.35	.....	26.80	29.55	.....	.....	.....	35.80

#### Tuscaloosa County

Tus-1. University of Alabama. North end of Smith Hall. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 23, T. 21 S., R. 10 W. Drilled observation water-table well in sand and gravel of the Tuscaloosa group, diameter 4 inches, depth 56 feet. Land-surface datum is 230.1 feet above msl. Highest water level 25.28 below lsd, Mar. 28, 1954; lowest 27.84 below lsd, Dec. 29-31, 1954. Records available: 1954.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.11	25.56	.....	25.54	25.66	.....	26.09	26.47	26.79	.....	27.41	.....
2	26.11	25.56	25.37	25.51	25.69	.....	26.11	26.47	26.79	.....	27.44	27.58
3	26.15	25.56	25.36	25.50	25.68	.....	26.12	26.48	26.82	.....	27.46	27.59
4	26.14	25.53	25.35	25.50	25.68	.....	26.15	26.49	26.82	27.11	27.47	27.59
5	26.12	25.53	25.35	25.50	25.66	.....	26.16	26.49	26.84	.....	.....	27.65
6	26.12	25.53	25.34	25.51	25.67	.....	26.17	26.55	26.86	.....	.....	27.65
7	26.11	25.53	25.33	25.56	25.69	25.81	26.19	26.56	26.87	.....	.....	27.69
8	26.12	25.47	25.36	25.54	25.70	25.83	26.20	26.57	26.87	.....	27.46	27.70
9	.....	.....	25.36	25.56	25.71	25.84	26.20	26.58	26.87	.....	27.47	.....
10	.....	.....	25.35	25.56	25.72	25.84	26.21	26.58	26.90	.....	27.49	.....

Tus-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	26.12	.....	25.40	25.58	25.72	25.85	26.22	26.58	26.90	.....	27.49	.....
12	26.11	.....	25.39	25.58	25.71	25.87	26.23	26.61	.....	27.19	27.49	.....
13	26.11	.....	25.42	25.60	25.71	25.88	26.24	26.58	26.94	27.22	27.50	27.73
14	26.08	.....	25.42	25.62	.....	25.91	26.19	26.59	26.94	27.22	27.51	27.74
15	26.06	26.33	25.42	25.63	.....	25.93	26.20	26.59	26.95	27.24	27.53	27.75
16	26.05	26.35	25.45	25.65	.....	25.99	26.26	26.65	26.95	27.24	27.54	27.75
17	26.01	26.35	25.44	25.64	.....	25.99	26.21	26.64	26.95	27.24	27.55	27.76
18	26.00	26.35	25.42	25.63	.....	25.97	26.25	26.65	26.97	27.26	27.56	27.76
19	26.00	26.34	25.44	25.63	.....	25.98	26.24	26.65	26.98	.....	27.57	27.77
20	25.99	26.37	25.47	25.62	.....	25.99	26.25	26.70	27.02	.....	27.59	27.78
21	25.93	26.32	25.48	.....	.....	26.02	.....	26.71	27.08	.....	27.59	27.79
22	25.88	26.32	25.50	25.62	25.61	26.03	.....	26.71	27.04	.....	27.59	27.80
23	25.87	26.34	25.57	25.63	25.62	26.05	26.37	26.72	27.04	.....	27.60	27.81
24	25.87	26.30	25.54	25.63	25.63	26.06	26.39	26.73	27.04	.....	27.60	27.82
25	25.81	26.33	25.55	25.63	25.63	26.06	26.40	26.73	27.04	27.31	27.61	27.82
26	25.78	26.31	25.51	25.62	25.64	26.06	26.41	26.73	27.05	27.32	27.61	27.83
27	25.74	26.34	25.51	25.62	25.63	26.06	26.41	.....	27.01	27.33	27.62	27.80
28	25.73	26.32	.....	25.62	25.66	26.08	26.42	.....	.....	27.34	27.66	27.82
29	25.70	.....	.....	25.66	25.67	26.08	26.44	.....	.....	27.36	27.65	27.84
30	25.70	.....	.....	25.66	.....	26.08	26.45	26.78	.....	27.37	.....	27.84
31	25.70	.....	.....	.....	.....	.....	26.46	26.79	.....	27.37	.....	27.84

Wilcox County

Wil-1. City of Camden. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 12 N., R. 8 E. Drilled observation artesian well in sand of Ripley formation, diameter 4 inches, depth 400 feet. Land-surface datum is 165.0 feet above msl. Highest water level 68.10 below lsd, Apr. 27, 1953; lowest 124.13 below lsd, Sept. 16, 1954. Records available: 1953-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	89.63	Apr. 27	98.84	Sept. 16	124.13	Nov. 27	117.34
Feb. 26	73.28	May 22	106.98	Oct. 20	123.27	Dec. 18	108.56
Mar. 18	91.71						

# FLORIDA

By Ralph C. Heath and C. B. Sherwood, Jr.

## Scope of Water-Level Program

Water-level observations were begun on a few wells in Florida as early as 1930. A comprehensive water-level observation program was begun in southern Florida in 1939 as a part of an intensive investigation of salt-water encroachment in the Miami area. In 1954, the statewide observation program was continued in cooperation with the Florida Geological Survey; with the Central and Southern Florida Flood Control District; with the Dade, Manatee, Pinellas, Polk, and Seminole Counties; and with the cities of Daytona Beach, Fort Lauderdale, Miami, Miami Beach, Naples, New Smyrna Beach, Pensacola, and Sanford. At the close of 1954, water-level observations were being made in 699 wells throughout the State. Of these wells, 143 were equipped with recording gages and 556 were measured periodically. Figures 7-11 show the location of observation wells. The following table shows a breakdown of the wells by counties.

County	Wells reported in annual water-level report for 1954		Wells not reported in annual water-level report	
	Measured periodically	Equipped with recording gages	Measured periodically	Equipped with recording gages
Bay	2	1	...	1
Brevard	5	...	8	...
Broward	...	4	68	2
Citrus	2	...	...	...
Clay	7	...	...	...
Collier	...	2	18	1
Columbia	...	1	...	...
Dade	1	30	158	7
Duval	13	1	6	...
Escambia	2	5	2	2
Flagler	1	...	...	...
Franklin	...	...	2	...
Gadsden	1	...	...	...
Gulf	...	1	...	...
Hendry	...	2	...	...
Highlands	...	7	...	...
Hillsborough	...	3	16	...
Holmes	1	1	...	...
Indian River	...	1	...	1
Jackson	...	2	...	...
Lake	4	...	...	...
Lee	1	2	...	2
Leon	2	2	1	...
Madison	...	1	1	...
Manatee	...	1	23	3
Marion	4	1	1	...
Martin	...	1	25	2
Nassau	10	1	...	...
Okaloosa	6	...	2	...
Okeechobee	...	3	...	...
Orange	...	3	...	...
Osceola	...	6	...	...
Palm Beach	...	2	...	4
Pasco	...	2	...	...
Pinellas	...	5	...	2
Polk	...	8	40	2
Putnam	2	...	...	...
St. Johns	6	...	...	...
St. Lucie	...	...	...	2
Santa Rosa	1	1	1	...

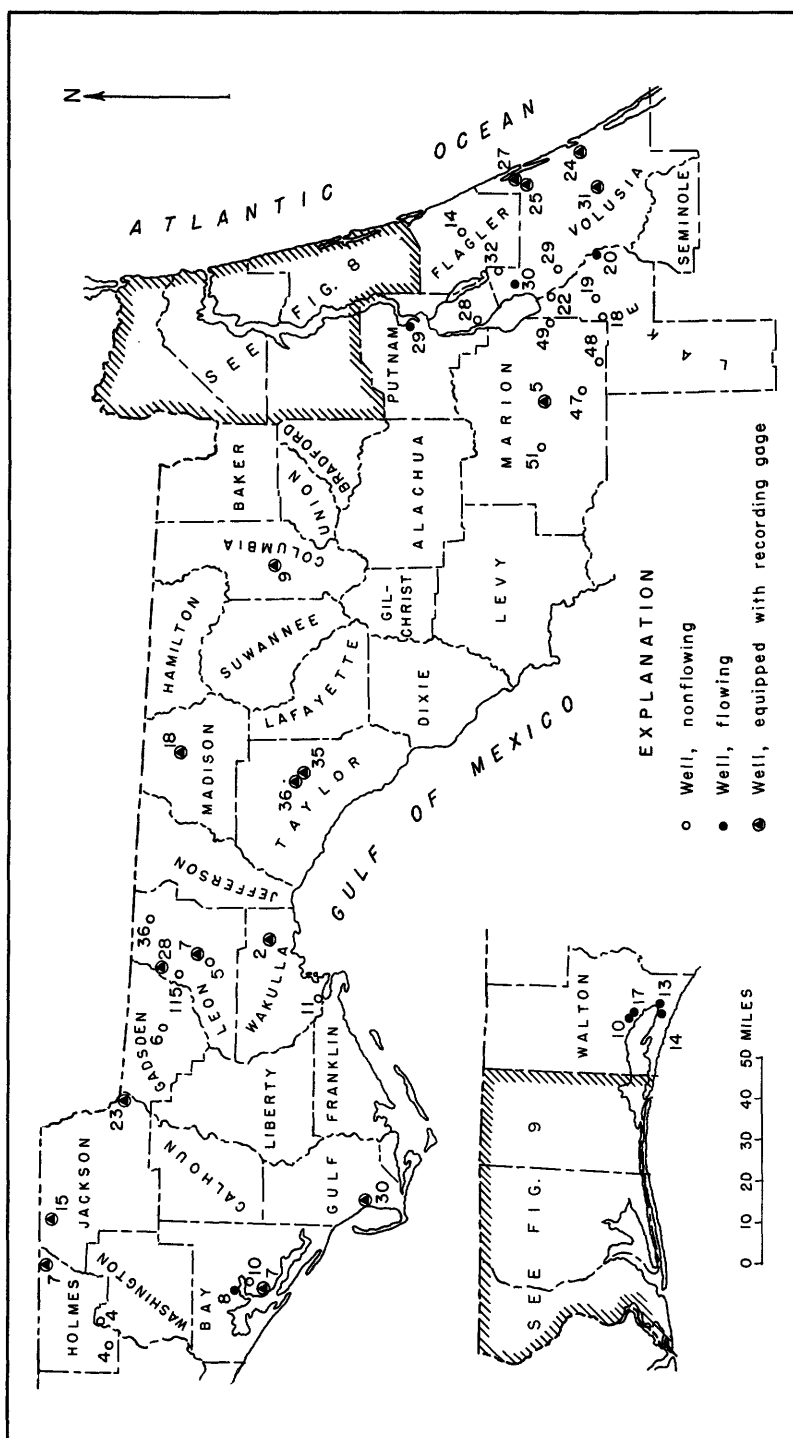


Figure 7. --Location of observation wells in northern Florida, 1954.

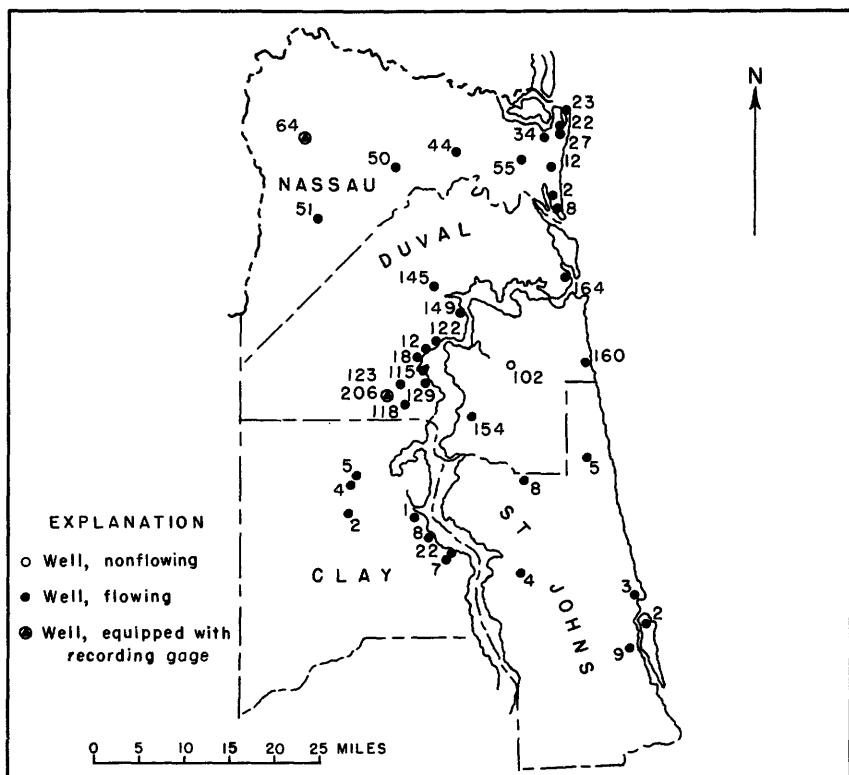


Figure 8. --Location of observation wells in Nassau, Duval, Clay, and St. Johns Counties, Fla., 1954.

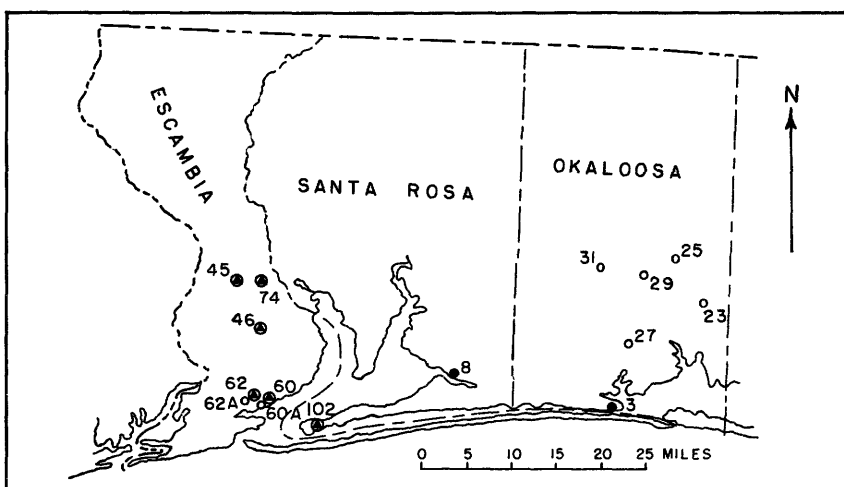


Figure 9. --Location of observation wells in Escambia, Santa Rosa, and Okaloosa Counties, Fla., 1954.



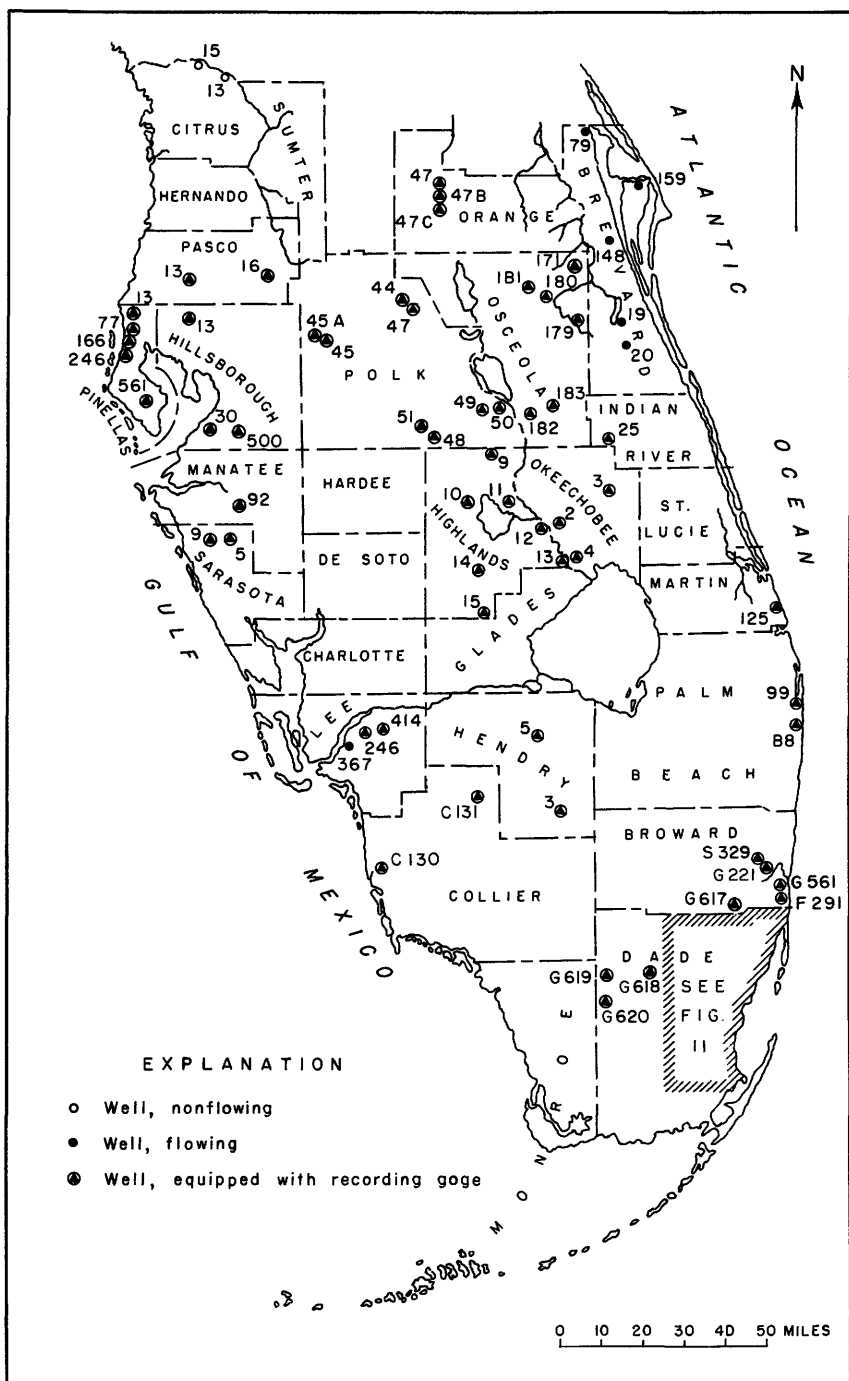


Figure 10. --Location of observation wells in southern Florida, 1954.

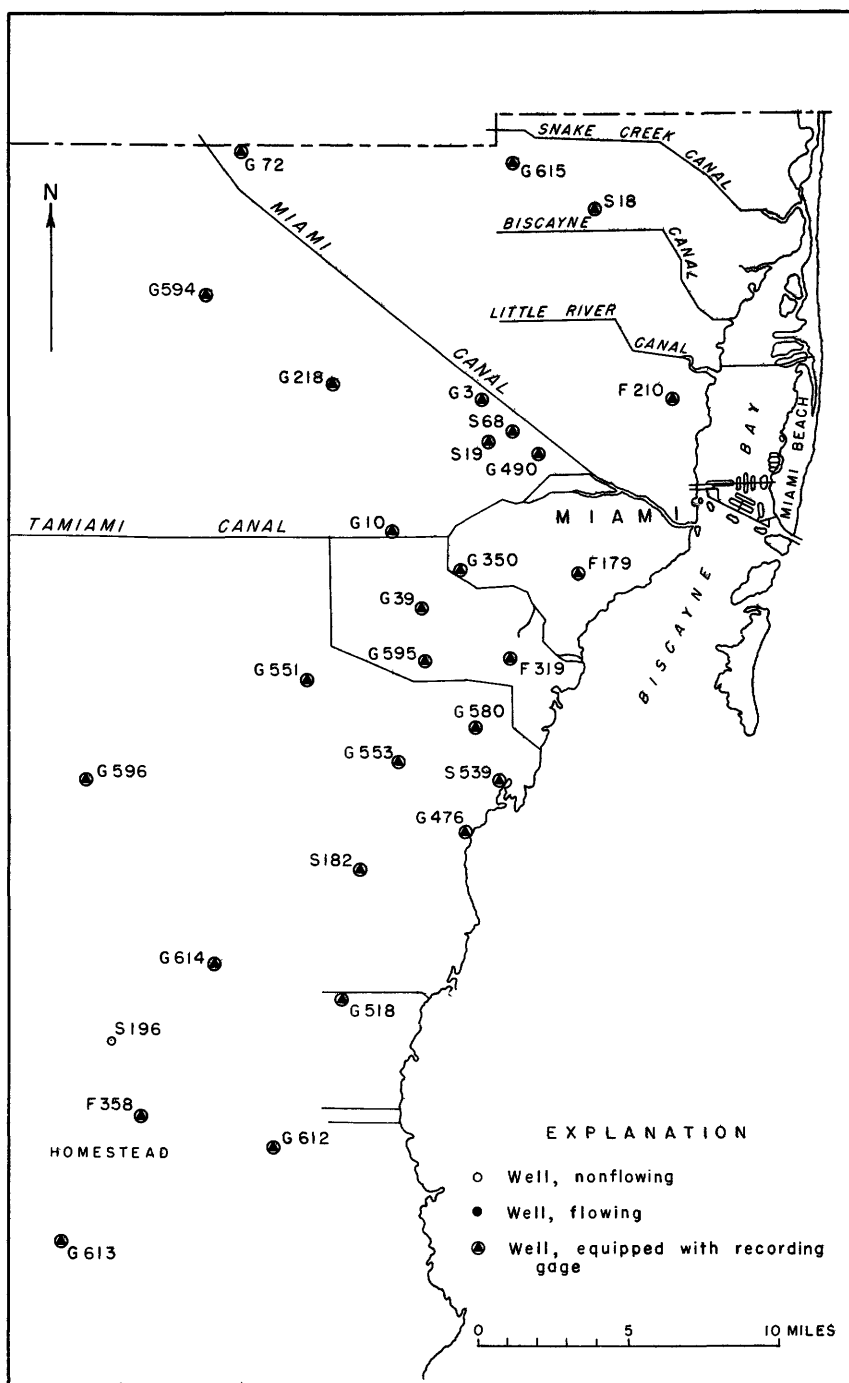


Figure 11. --Location of observation wells in eastern Dade County, Fla., 1954.

List of wells--Continued.

County	Wells reported in annual water-level report for 1954		Wells not reported in annual water-level report	
	Measured periodically	Equipped with recording gages	Measured periodically	Equipped with recording gages
Sarasota	...	2	...	...
Seminole	...	...	70	2
Taylor	...	2	22	1
Volusia	3	4	12	...
Wakulla	1	1	...	...
Walton	4	...	...	...
Washington	1	...	...	...
Total	80	109	476	34

Three reports--"Ground-water resources of the Naples area, Collier County," by Howard Klein; "Ground-water resources of Pinellas County," by R. C. Heath and P. C. Smith; and "Water resources of Palm Beach County," by M. C. Schroeder, D. L. Milliken, and S. K. Love--were published by the Florida Geological Survey as Reports of Investigations Nos. 11, 12, and 13. Also, a report entitled "Interim report on the ground-water resources of Seminole County," by R. C. Heath and J. T. Barraclough, was published as Information Circular No. 5 by the Florida Geological Survey. The U. S. Geological Survey published the report, "Geology of the western Everglades area, southern Florida," by M. C. Schroeder and Howard Klein as Circular 314. A report entitled "Research on salt-water encroachment in the Miami area, Florida," by F. A. Kohout and N. D. Hoy was released to the open files.

### Precipitation

The climate of Florida during 1954 ranged from extremely dry in the northwestern part of the State to abnormally wet along most of the lower east coast. Departures from normal precipitation ranged from more than 30 inches below in west Florida to more than 20 inches above in the Fort Lauderdale area. The average precipitation for the State was 45.89 inches, 7.44 inches below normal.

The following table shows the total precipitation and departures from normal at selected stations:

Precipitation at selected stations in Florida, 1954

Town	County	Total precipitation (inches)	Departure from normal
Everglades	Collier	64.35	+12.95
Homestead	Dade	67.76	+5.16
Fort Lauderdale	Broward	85.80	+20.61
West Palm Beach	Palm Beach	72.35	+8.71
Fort Myers	Lee	49.73	-3.54
Tampa	Hillsborough	43.20	-6.74
Orlando	Orange	47.97	-3.26
Palatka	Putnam	29.22	-22.54
Jacksonville	Duval	31.76	-20.54
Lake City	Columbia	36.66	-13.22
Tallahassee	Leon	30.98	-25.68
Pensacola	Escambia	28.66	-32.94

### Pumpage

The average daily pumpage from the city of Miami well fields during 1954 was 64 million gallons, 11 million gallons of which was obtained from the new southwest well field, near well G551. The heaviest pumpage occurred during February when the daily average was 74 million gallons. The Miami Springs well field of the city of Miami contains two cones of depression of about equal size. Well G3 is within one cone and well S68 is near the center of the other. (See fig. 11.)

### Occurrence of Ground Water

Most of the water used in Florida north of Lake Okeechobee is obtained from an extensive, highly productive aquifer composed of limestone deposits of Eocene, Oligocene, and Miocene ages. These deposits, collectively referred to as the Floridan aquifer, are overlain by younger materials, ranging in thickness from a few feet to several hundred feet. Over most of the State, these younger deposits consist predominantly of clay that confines the water in the Floridan aquifer under artesian pressure. This pressure is sufficient in many areas (as, for example, in a belt about 20 miles wide along the east coast and in all of the State south of Lake Okeechobee) to raise

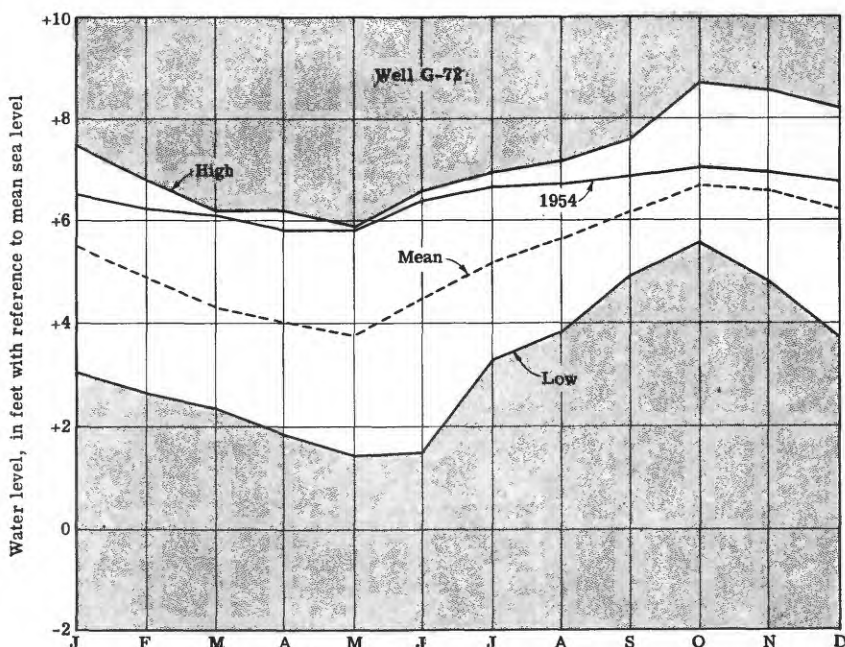


Figure 12. --Hydrograph of well G-72 in Dade County, Fla., showing average monthly water level in 1954 and high, low, and the mean of the average monthly water levels for the period 1940-53.

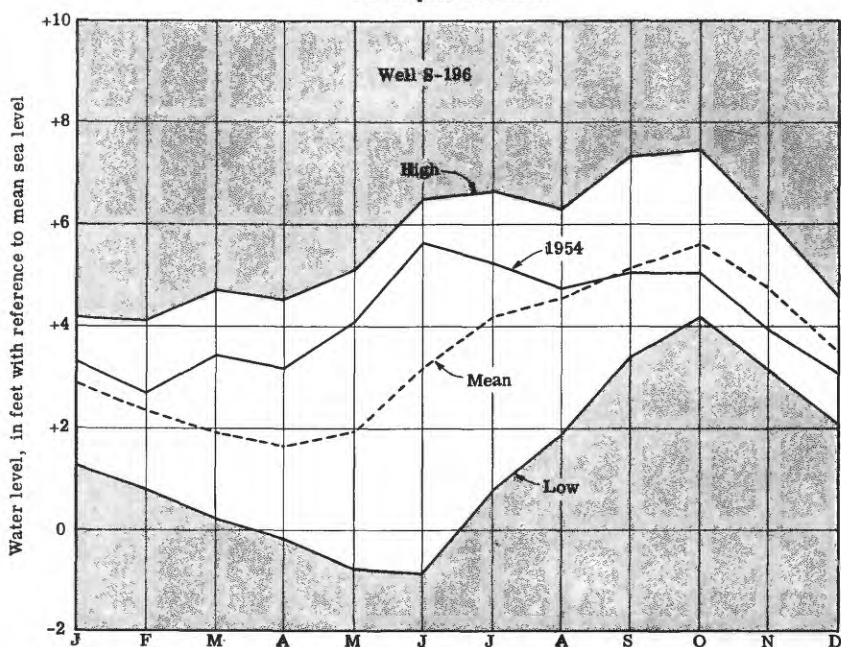


Figure 13. --Hydrograph of well S-196 in Dade County, Fla., showing average monthly water level in 1954 and high, low, and the mean of the average monthly water levels for the period 1932-53.

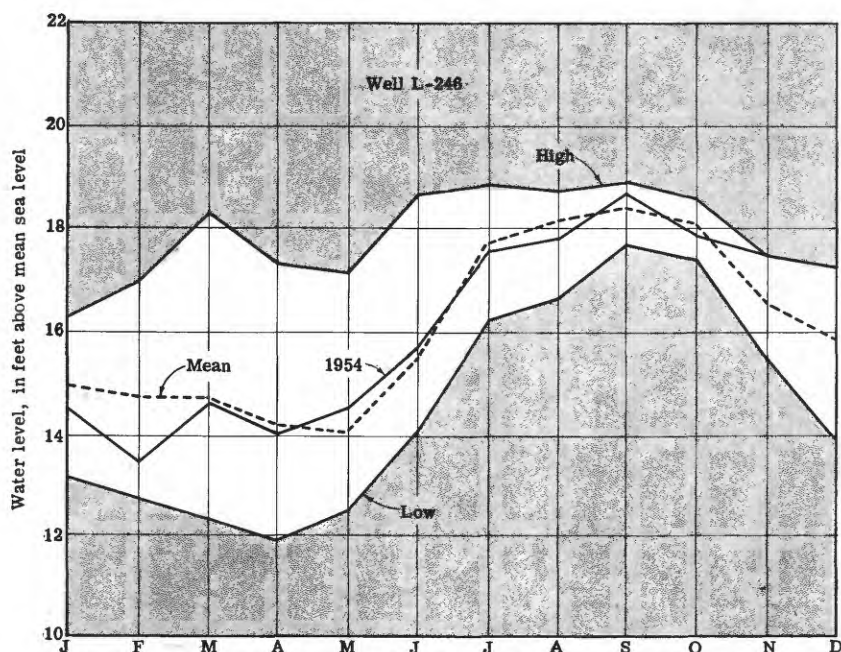


Figure 14. --Hydrograph of well L-246 in Lee County, Fla., showing average monthly water level in 1954 and high, low, and the mean of the average monthly water levels for the period 1945-53.

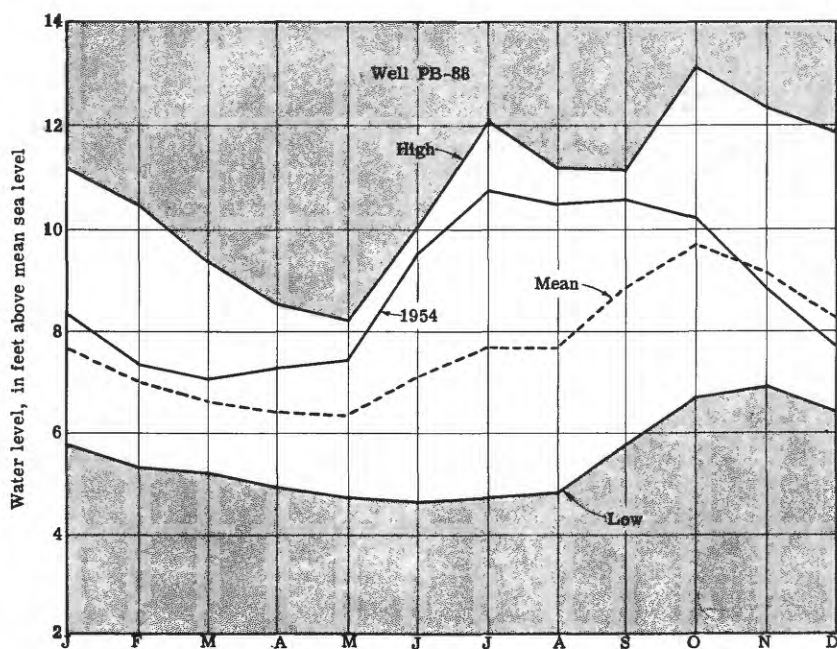


Figure 15. --Hydrograph of well PB-88 in Palm Beach County, Fla., showing average monthly water level in 1954 and high, low, and the mean of the average monthly water levels for the period 1945-53.

water above the land surface. Water in the Floridan aquifer in a narrow area along the east coast from St. Augustine south and in southern Florida south of the vicinity of Lake Okeechobee is too highly mineralized for general use. In these areas and in Escambia and Santa Rosa Counties, where the Floridan aquifer is either absent or at relatively great depth beneath the surface, the principal source of water is shallow deposits that range in thickness from about 50 to about 500 feet. These deposits, composed of limestone, sand, shelly sand, and coquina, range in age from late Miocene to Pleistocene. The water-transmitting capacity of these deposits differs widely. The Biscayne aquifer, a source of supply for the city of Miami, is one of the most productive aquifers in the world. Generally, however, these shallow deposits are less productive than the Floridan aquifer.

### Interpretation of Water-Level Fluctuations

The effect of the unusual distribution of rainfall on water levels in the State may be observed from the new highest and lowest water-level records during 1954. Out of the 189 wells for which measurements are included in this report, only five new highs were established; whereas new lows were recorded for 54 wells. Except in Santa Rosa County well 102, the new highs were all established in wells in Broward and Dade Counties in the southeastern part of the State where the rainfall was above normal. The new high reached in Santa Rosa County well 102 was a result of abnormally heavy rainfall in December 1953. The new low records were reached in wells in central and northern Florida where precipitation was at or below normal.

Water levels in observation wells in areas in Escambia County not affected by heavy pumping declined about 2 feet during 1954. The decline in wells adjacent to heavy pumping ranged from 2 feet in well 45, near the well field of the St. Regis Paper Co., to 6 feet in well 74, near the well field of the New Chemstrand Corp. plant.

Water levels in other parts of west Florida also showed the effects of the dry weather in 1954. In Okaloosa County, water levels declined as much as 13 feet during the spring and summer. In September the water levels in most wells began to recover, and by the end of 1954 they were nearly back to the level of the end of 1953. In Leon County and in west Florida, generally, the decline during 1954 ranged from about 3 to about 13 feet.

Water levels in the northern part of the peninsula also declined during 1954, though to a lesser extent than in west Florida. Water levels at Foley, Taylor County (see data for wells Taylor 35 and 36) declined as much as 20 feet during the year. Some of the decline was caused by pumping from a well field at a new cellulose plant. Water levels also declined from about a foot to as much as 4 or 5 feet in the industrialized areas in Duval and Nassau Counties in northeast Florida. Water levels in central Florida remained relatively unchanged during the year.

Average ground-water levels in southern Florida in 1954 ranged from about normal to 3.5 feet above normal, except during October, November, and December when levels dropped as much as 0.8 foot below normal in some areas. The largest rises in water levels occurred during May and June along the lower east coast and in the lower Everglades. Wells G72 and G596 in the lower Everglades are within the area of influence of water-conservation reservoirs constructed as a part of the flood-control program in central and southern Florida. The length of record on these wells is not yet adequate, however, to evaluate the effect of these reservoirs on ground-water levels. Figures 12-15 are hydrographs of selected wells in southern Florida showing average monthly water level in 1954 and high, low, and the mean of the average monthly water levels for the period of record.

### Acknowledgments

The water-level measurements for Dade County well S196 were furnished by the University of Florida Subtropical Experiment Station, Homestead.

### Well-Numbering System

Observation wells in Florida are generally numbered serially by counties. Exceptions to this are well numbers with the letter prefixes F, S, and G, which denote fire wells, supply wells, and wells owned by the U. S. Geological Survey, respectively. The letter A that follows certain well numbers in Escambia, Orange, and Polk Counties denotes a shallow well near a deeper well having the same number without a letter suffix.

### Well Descriptions and Water-Level Measurements

Water levels are in feet below land-surface datum unless otherwise indicated. When some measurements in a table are above and others below the plane of reference, a plus (+) or minus (-) sign is placed immediately before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference, and those between minus signs are below the plane of reference.

Bay County

7. City of Panama City. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 3 S., R. 15 W. Clay and Eleventh Sts., St. Andrew. Drilled unused artesian well in Floridan aquifer, diameter 3 inches, depth 356 feet. Land-surface datum is 26.3 feet above msl. Highest water level 41.76 below lsd, Mar. 22, 1948; lowest 63.08 below lsd, Sept. 9, 1954. Records available: 1946-54. Tape measurement.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	53.56	Apr. 5	53.22	July 6	61.69	Oct. 20	60.14
Feb. 23	52.68	May 17	56.63	Sept. 29	60.57	Dec. 1	59.30
Mar. 14	52.53	25	58.32	Sept. 9	63.08		

8. St. Joe Paper Co. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 28, T. 2 S., R. 14 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 435 feet, cased to 300. Land-surface datum is 4 feet above msl. Highest water level 2.64 above lsd, Oct. 25, 1949; lowest 0.70 above lsd, Dec. 1, 1954. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	+1.70	May 17	+1.10	July 29	+0.96	Oct. 20	+0.83
Feb. 23	+1.65	July 7	+.85	Sept. 9	+.85	Dec. 1	+.70
Apr. 6	+1.67						

10. L. R. Pierson. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 10, T. 3 S., R. 14 W. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, depth 300 feet. Land-surface datum is 25.74 feet above msl. Highest water level 5.88 below lsd, Aug. 21, 1946; lowest 10.25 below lsd, Sept. 9, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	6.59	May 17	8.48	July 29	9.52	Oct. 20	8.54
Feb. 23	7.11	July 7	9.96	Sept. 9	10.25	Dec. 1	8.27
Apr. 6	7.11						

Brevard County

19. R. M. Wall. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 28 S., R. 36 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 413 feet, cased to 80. Land-surface datum is 19.04 feet above msl. Highest water level 30.0 above lsd, Oct. 15, 1949; lowest 24.4 above lsd, Mar. 23, 1953. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	+28.3	May 24	+26.4	Aug. 5	+27.8	Nov. 3	+26.5
Apr. 14	+25.6	July 7	+26.8	Sept. 17	+26.6	Dec. 15	+28.4

20. Marion Platt. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 4, T. 29 S., R. 36 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 447 feet, cased to 125. Land-surface datum is 23 feet above msl. Highest water level 28.7 above lsd, May 12, 1947; lowest 24.0 above lsd, June 2, 1952, June 22, 1953. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	+28.4	May 24	+24.3	Aug. 5	+25.5	Nov. 3	+26.4
Mar. 3	+25.2	July 7	+24.6	Sept. 17	+26.0	Dec. 15	+25.4
Apr. 13	+24.4						

79. C. W. Carlisle. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 11, T. 20 S., R. 35 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 160 feet, cased to 85. Land-surface datum is 8.98 feet above msl. Highest water level 6.7 above lsd, Aug. 29, 1946; lowest 1.56 above lsd, Aug. 1, 1950. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	+4.80	May 24	+3.38	Aug. 5	+3.65	Oct. 28	+4.13
Mar. 4	+4.10	July 9	+3.35	Sept. 17	+3.49	Dec. 6	+4.28
Apr. 14	+2.38						

148. W. P. Warren. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 31, T. 24 S., R. 36 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 206 feet, cased to 105. Land-surface datum is 19.49 feet above msl. Highest water level 13.1 above lsd, Sept. 16, 1947; lowest 7.7 above lsd, Aug. 1, 1950. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+12.3	May 25	+8.3	Aug. 5	+11.1	Nov. 3	+11.7
Mar. 3	+11.0	July 7	+12.0	Sept. 17	+11.3	Dec. 15	+11.9
Apr. 14	+9.9						

159. H. R. Jacobsen. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 22 S., R. 37 E. Drilled irrigation well in Floridan aquifer, diameter 6 inches, depth 210 feet, cased to 144. Land-surface datum is 3.77 feet above msl. Highest water level 17.2 above lsd, Dec. 14, 1946; lowest 13.7 above lsd, Aug. 1, 1950. Records available: 1946-47, 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+15.5	May 25	+13.0	Aug. 5	+14.9	Nov. 3	+15.2
Mar. 4	+14.9	July 7	+15.4	Sept. 17	+14.8	Dec. 15	+15.1
Apr. 14	+13.9						

b Pumped recently.

Broward County

F291. City of Hollywood. South 20th Ave., and Dewey St. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 51 S., R. 42 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 107 feet. Land-surface datum is 9.16 feet above msl. Highest water level 7.26 above msl, Oct. 5, 1948; lowest 0.16 above msl, July 2, 1952. Records available: 1939-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.22	1.32	1.34	1.20	1.97	3.76	3.99	3.72	3.40	3.14	2.56	2.39
2	2.19	1.31	1.36	1.18	1.93	4.05	3.87	3.58	3.54	4.52	2.51	2.31
3	2.15	1.29	1.38	1.22	1.88	4.16	3.75	3.44	3.45	4.36	2.47	2.25
4	2.11	1.28	1.39	1.23	1.84	4.29	3.64	3.30	3.30	4.12	2.42	2.18
5	2.07	1.26	1.40	1.22	1.80	4.33	3.54	3.20	3.14	3.94	2.38	2.13
6	2.03	1.25	1.40	1.21	1.78	4.24	3.42	3.08	3.03	3.80	2.33	2.08
7	1.99	1.23	1.41	1.32	1.73	4.09	3.33	2.96	2.93	3.76	2.26	2.03
8	1.97	1.21	1.42	1.58	1.69	3.93	3.30	2.89	2.80	3.88	2.21	2.00
9	1.92	1.20	1.46	1.59	1.65	3.78	3.28	2.81	2.70	3.80	2.16	1.95
10	1.90	1.18	1.50	1.60	1.60	3.66	3.83	2.73	2.62	3.83	2.12	1.92
11	1.88	1.17	1.51	1.59	1.57	3.51	3.74	2.66	2.56	3.73	2.34	1.88
12	1.84	1.15	1.51	1.57	2.16	3.39	3.63	2.58	2.50	3.67	2.85	1.84
13	1.80	1.13	1.50	1.56	2.70	3.27	3.49	2.51	3.58	3.57	3.40	1.81
14	1.77	1.12	1.47	1.54	2.78	3.35	3.44	2.43	3.76	3.48	3.84	1.79
15	1.74	1.10	1.43	1.54	2.76	3.25	4.45	2.36	3.71	3.40	3.90	1.76
16	1.72	1.09	1.38	1.53	2.90	3.98	4.32	2.29	3.63	3.31	3.68	1.71
17	1.67	1.07	1.38	1.52	2.92	....	4.10	2.21	3.57	3.22	3.54	1.67
18	1.64	1.06	1.35	1.49	2.86	....	3.90	2.13	3.79	3.14	3.41	1.64
19	1.62	1.04	1.31	1.46	2.96	....	3.73	2.08	3.73	3.05	3.32	1.60
20	1.59	1.03	1.52	1.53	2.92	....	3.58	2.02	3.63	2.99	3.21	1.56
21	1.56	1.01	1.54	1.66	2.84	....	3.44	1.96	3.55	2.91	3.10	1.52
22	1.54	.99	1.54	1.83	2.79	....	3.39	1.93	3.45	2.85	3.02	1.47
23	1.51	.98	1.53	2.09	2.70	....	3.36	1.90	3.36	2.78	2.94	1.43
24	1.48	.97	1.48	2.24	2.61	....	4.54	1.86	3.30	2.70	2.86	1.40
25	1.45	.98	1.44	2.28	2.57	....	4.63	1.82	3.51	2.66	2.82	1.36
26	1.43	.98	1.40	2.26	2.51	....	4.37	2.13	3.46	2.88	2.77	1.32
27	1.41	.97	1.37	2.20	3.23	....	4.22	2.06	3.42	2.86	2.69	1.28
28	1.40	1.23	1.34	2.17	3.60	....	4.12	1.97	3.34	2.80	2.61	1.26
29	1.37		1.30	2.09	3.67	4.31	4.15	3.24	3.26	2.70	2.54	1.24
30	1.36		1.26	2.03	3.62	4.10	3.98	3.15	3.19	2.62	2.46	1.20
31	1.34		1.23		3.50		3.85	3.04		....		1.18

G221. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 50 S., R. 42 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 145 feet, cased to 143. Land-surface datum is 15.63 feet above msl. Highest water level 11.49 above msl, Oct. 12, 1947; lowest 0.39 below msl, July 2, 1952. Records available: 1946-52. Measurement discontinued.

G561. U. S. Geol. Survey. Southeast 4th Ave., and 20th St., Fort Lauderdale. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 50 S., R. 42 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 20. Land-surface datum is 8.15 feet above msl. Highest water level 7.40 above msl, Oct. 5, 1948; lowest 0.05 above msl, July 2, 1952. Records available: 1948-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.72	1.01	1.26	0.75	1.73	2.90	3.02	2.76	2.68	2.63	2.42	2.09
2	1.67	1.09	1.25	.74	1.67	3.28	2.90	2.63	2.97	4.62	2.32	2.02
3	1.62	1.13	1.18	.85	1.61	3.28	2.77	2.50	2.99	4.22	2.25	1.96
4	1.56	1.16	1.14	.91	1.58	3.60	2.66	2.37	2.79	3.94	2.18	1.91
5	1.53	1.19	1.10	.93	1.68	3.62	2.55	2.27	2.63	3.70	2.12	1.87
6	1.51	1.21	1.22	.86	1.65	3.37	2.46	2.15	2.50	3.53	2.08	1.84
7	1.47	1.18	1.29	.82	1.59	3.20	2.38	2.08	2.39	3.44	2.04	1.80
8	1.44	1.16	1.30	1.19	1.54	3.02	2.34	2.05	2.31	3.31	1.93	1.76
9	1.42	1.11	1.38	1.16	1.49	2.85	2.32	2.02	2.25	3.24	1.90	1.74
10	1.42	1.07	1.38	1.14	1.41	2.70	2.29	1.98	2.19	3.38	1.91	1.72
11	1.47	1.02	1.35	1.09	1.37	2.59	2.24	1.94	2.17	3.27	1.97	1.70
12	1.39	.99	1.29	1.02	2.40	2.49	2.32	1.91	2.60	3.19	3.72	1.67
13	1.37	.97	1.24	1.08	2.74	2.40	2.24	1.85	4.42	3.13	3.92	1.63
14	1.35	.96	1.17	1.10	2.62	2.44	2.78	1.82	4.20	3.10	4.34	1.60
15	1.31	.92	1.11	1.14	2.53	2.36	3.68	1.78	3.97	3.00	4.46	1.57
16	1.30	.88	1.06	1.12	2.70	2.98	3.44	1.72	3.75	2.92	e4.00	1.51
17	1.25	.87	1.03	1.11	2.65	4.40	3.26	1.67	3.66	2.80	e3.79	1.46
18	1.23	.84	1.00	1.08	2.56	4.79	3.09	1.61	4.46	2.70	e3.56	1.50
19	1.20	.82	1.15	1.05	2.61	4.34	2.94	1.56	3.97	2.62	e3.41	1.40
20	1.21	.85	1.23	.98	2.48	4.20	2.82	1.52	3.68	2.55	e3.29	1.34



## G561--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	1.19	0.89	1.24	1.29	2.40	4.00	2.69	1.48	3.49	2.51	e3.16	1.31
22	1.18	.87	1.18	1.92	2.35	3.95	2.65	1.70	3.71	2.46	e3.04	1.26
23	1.16	.82	1.12	2.40	2.26	3.84	2.97	1.59	3.45	2.43	e2.91	1.22
24	1.12	.85	1.06	2.44	2.17	3.77	3.37	1.51	3.30	2.35	e2.79	1.19
25	1.09	.81	1.00	2.25	2.24	3.68	3.27	1.46	3.19	2.31	e2.67	1.15
26	1.08	.78	.95	2.12	2.16	3.58	3.13	1.77	3.06	2.27	e2.59	1.09
27	1.07	.79	.91	2.04	3.07	3.46	3.32	1.78	2.96	2.73	2.50	1.05
28	1.06	1.18	.88	1.98	3.29	3.36	3.15	1.78	2.85	2.82	2.40	1.03
29	1.10		.83	1.89	3.24	3.27	3.14	1.98	2.74	2.71	2.28	1.00
30	1.08		.80	1.80	3.10	3.14	3.02	2.04	2.69	2.64	2.19	.97
31	1.06		.77		2.97		2.89	2.11		2.54		.94

e Estimated.

G617. U. S. Geol. Survey. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 50 S., R. 40 E. Drilled observation water-table well in sandstone of Biscayne aquifer, diameter 6 inches, depth 29 feet, cased to 28. Land-surface datum is 6.0 feet above msl. Highest water level 6.61 above msl, May 16, 1954; lowest 2.80 above msl, May 25-27, 1951. Records available: 1950-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.75	4.07	4.73	3.85	3.77	6.29	4.45	4.78	5.60	....	....	4.48
2	4.70	4.07	4.63	3.80	3.72	5.70	4.36	4.65	5.65	....	....	4.44
3	4.64	4.05	4.52	4.23	3.67	5.43	4.28	4.53	5.92	....	....	4.38
4	4.58	4.04	4.40	4.24	3.63	5.75	4.21	4.43	6.00	....	....	4.33
5	4.52	4.07	4.35	4.18	3.61	5.20	4.14	4.33	5.13	....	....	4.31
6	4.45	4.03	4.30	4.12	3.74	4.99	4.08	4.25	4.97	....	....	4.28
7	4.40	4.02	4.80	4.22	3.68	4.80	4.40	4.19	5.14	....	....	4.23
8	4.36	4.02	4.57	5.52	3.61	4.62	4.42	4.13	....	....	....	4.20
9	4.33	4.02	5.05	5.22	3.55	4.48	4.31	4.40	....	....	....	4.19
10	4.33	4.02	4.81	5.05	3.50	4.42	4.25	4.27	....	....	....	4.15
11	4.85	4.05	4.64	4.85	3.43	4.35	4.21	4.25	....	....	....	4.12
12	4.70	4.07	4.50	4.67	4.85	4.32	4.60	4.16	....	....	....	4.11
13	4.65	4.05	4.40	5.77	6.25	4.25	4.55	4.07	....	....	....	4.10
14	4.62	4.05	4.30	5.22	5.67	5.18	4.94	4.02	....	....	....	4.15
15	4.63	4.05	4.19	4.90	6.09	5.75	5.75	3.98	....	....	....	4.08
16	4.59	4.05	4.10	4.67	6.61	6.00	5.17	3.92	....	....	....	4.05
17	4.53	4.05	4.05	4.49	e6.38	5.43	4.90	3.89	....	....	....	4.04
18	4.48	4.05	4.00	4.37	e6.14	6.48	4.71	3.87	....	....	....	4.28
19	4.40	4.05	3.95	4.25	e5.90	6.50	4.56	3.85	....	....	....	4.30
20	4.35	4.05	4.78	4.17	e5.65	6.29	4.45	3.83	....	....	....	4.22
21	4.30	4.05	4.60	4.25	e5.42	5.77	4.42	3.83	....	....	....	4.18
22	4.26	4.03	4.46	4.37	e5.18	6.05	4.31	3.90	....	....	....	4.15
23	4.22	4.02	4.34	4.51	e4.95	5.57	5.75	3.94	....	....	....	4.12
24	4.20	4.03	4.23	4.40	e4.70	6.05	5.78	3.95	....	....	....	4.10
25	4.15	4.05	4.15	4.33	4.53	5.38	5.84	3.95	....	....	....	4.09
26	4.15	4.10	4.07	4.20	4.43	5.18	6.15	3.91	....	....	4.73	4.09
27	4.15	4.11	4.00	4.10	6.40	5.02	5.49	3.86	....	....	4.70	4.08
28	4.13	4.85	3.95	4.01	6.43	4.85	5.80	3.83	....	....	4.64	4.04
29	4.11		3.93	3.98	5.92	4.69	5.20	4.02	....	....	4.58	4.00
30	4.10		3.88	3.84	5.69	4.55	5.01	4.41	....	....	4.53	3.99
31	4.08		3.87		6.12		4.90	5.05	....	....		3.99

e Estimated.

S329. City of Fort Lauderdale. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 50 S., R. 41 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 68 feet. Land-surface datum is 9.22 feet above msl. Highest water level 10.76 above msl, Oct. 17, 1947; lowest 0.45 above msl, July 2, 1952. Records available: 1940-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.19	2.15	2.33	1.75	2.45	5.77	5.66	4.43	2.60	3.87	3.20	4.04
2	3.11	2.10	2.39	1.76	2.40	5.87	5.51	4.29	2.72	4.72	3.10	3.94
3	3.03	2.07	2.40	1.80	2.27	5.69	5.34	4.15	2.83	4.68	3.09	3.88
4	3.02	2.04	2.34	1.83	2.32	5.50	5.20	4.07	2.92	4.55	3.00	3.77
5	3.00	2.00	2.32	1.84	2.36	5.52	5.07	3.98	2.94	4.42	2.93	3.68
6	2.96	1.97	2.39	1.78	2.34	5.23	4.93	3.89	2.93	4.30	2.88	3.58
7	2.90	1.96	2.42	1.90	2.27	5.12	4.88	3.81	2.84	4.23	2.81	3.59
8	2.84	2.02	2.45	2.13	2.23	5.02	4.80	3.73	2.77	4.12	2.75	3.54
9	2.87	1.98	2.53	2.26	2.19	4.82	4.88	3.85	2.68	4.40	2.68	3.41
10	2.93	1.79	2.53	2.31	2.09	4.66	4.74	3.72	2.55	4.57	2.62	3.30

## S329--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	2.90	1.76	2.52	2.26	2.02	4.50	4.78	3.64	2.45	4.51	e2.90	3.37
12	2.85	1.81	2.49	2.13	2.35	4.38	4.70	3.51	2.80	4.43	e4.40	3.31
13	2.86	1.79	2.45	2.02	3.08	4.28	4.66	3.36	3.67	4.34	e5.68	3.31
14	2.80	1.88	2.44	1.96	3.20	4.23	4.63	3.35	3.91	4.30	....	3.28
15	2.75	1.84	....	1.93	3.44	4.21	5.23	3.28	3.92	4.18	....	3.21
16	2.71	1.81	....	1.88	4.72	4.56	5.27	3.17	3.85	4.08	....	3.17
17	2.70	1.84	....	1.89	4.73	6.39	5.07	3.02	3.86	3.98	....	3.15
18	2.60	1.78	....	1.86	4.66	7.15	4.87	3.01	4.04	3.85	....	3.21
19	2.57	1.63	....	1.69	4.72	6.90	4.69	2.94	4.13	3.70	....	3.30
20	2.56	1.68	....	1.72	4.69	6.91	4.52	2.88	4.11	3.60	....	3.35
21	2.56	2.18	....	1.90	4.59	6.90	4.42	2.85	4.00	3.65	....	3.35
22	2.53	2.29	....	2.12	4.55	6.89	4.55	2.77	3.85	3.61	....	3.27
23	2.43	2.30	....	2.42	4.44	6.83	4.48	2.61	3.76	3.56	....	3.28
24	2.33	2.29	....	2.64	4.32	7.14	5.27	2.55	3.70	3.45	....	3.23
25	2.45	2.26	2.22	2.73	4.16	6.74	5.36	2.54	3.64	3.28	....	3.22
26	2.36	2.19	2.13	2.76	4.15	6.86	5.23	2.53	3.55	3.10	4.55	3.25
27	2.32	2.15	2.08	2.77	5.16	....	5.03	2.52	3.45	3.33	4.44	3.20
28	e2.29	2.23	1.98	2.67	5.53	....	4.90	2.49	3.35	3.38	4.32	3.13
29	2.28	....	1.88	2.61	5.44	5.84	4.83	2.45	3.29	3.43	4.20	3.07
30	2.24	....	1.87	2.53	5.41	5.82	4.64	2.48	3.24	3.41	4.13	3.00
31	2.18	....	1.84	....	5.29	....	4.56	2.57	....	3.35	....	2.93

e Estimated.

## Citrus County

13. A. C. Yonley. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 17 S., R. 19 E. Drilled unused artesian well in Floridan aquifer, diameter 3 inches, reported depth 113 feet. Land-surface datum is 38.4 feet above msl. Highest water level 0.4 above lsd, Sept. 1945; lowest 7.0 below lsd, June 1945. Records available: 1935-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	0.95	Apr. 2	3.18	June 17	4.59	Oct. 4	4.49
Feb. 23	2.72	May 18	3.98	Aug. 23	3.50	Nov. 15	5.08

15. Charles Rush. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 3, T. 17 S., R. 18 E. Drilled domestic artesian well in Floridan aquifer, diameter 3 inches, depth 78 feet. Land-surface datum is 44.2 feet above msl. Highest water level 7.84 below lsd, Oct. 16, 1950; lowest 17.9 below lsd, June 1945. Records available: 1935-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	11.38	Apr. 5	12.95	June 18	14.70	Oct. 4	13.10
Feb. 23	12.49	May 18	14.15	Aug. 23	13.16	Nov. 15	13.20

## Clay County

1. Girl Scouts of America. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 5 S., R. 26 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet, cased to 72. Land-surface datum is 11.74 feet above msl. Highest water level 44.3 above lsd, Mar. 22, 1948; lowest 32.7 above lsd, Dec. 16, 1953. Records available: 1934, 1940, 1942, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	+35.1	May 19	+33.2	Aug. 4	b+31.1	Nov. 2	b+35.6
Apr. 1	+36.7	June 28	b+31.4	Sept. 16	b+31.4	Dec. 14	b+33.2

b Pumped recently.

2. Mrs. M. A. Chaulker. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 13, T. 5 S., R. 24 E. Middleburg. Drilled domestic artesian well in Floridan aquifer, diameter 3 inches, reported depth 498 feet, cased to 300. Land-surface datum is 27.72 feet above msl. Highest water level 48.1 above lsd, Apr. 30, 1948; lowest 34.6 above lsd, May 28, 1953. Records available: 1934, 1940-42, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	+41.9	May 19	+39.1	Aug. 4	+37.5	Nov. 2	+39.1
Apr. 1	+38.8	June 28	+39.4	Sept. 16	+38.6	Dec. 14	+38.8

4. T. J. Jennings. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 32, T. 4 S., R. 25 E. Drilled stock well in Floridan aquifer, diameter 4 inches, reported depth 481 feet, cased to 80. Land-surface datum is 26.07 feet above msl. Highest water level 42.3 above lsd, July 15, 1947; lowest 30.7 above lsd, Aug. 4, 1954. Records available: 1940-42, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	+36.7	May 19	+34.5	Aug. 4	+30.7	Nov. 2	+32.9
Apr. 1	+35.6	June 28	+32.1	Sept. 16	+31.2	Dec. 14	+32.3

5. John Huntley. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 32, T. 4 S., R. 25 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 530 feet, cased to 157. Land-surface datum is 24.02 feet above msl. Highest water level 36.9 above lsd, Apr. 26, 1944; lowest 26.4 above lsd, Sept. 16, 1954. Records available: 1940-41, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	+31.1	May 19	+27.8	Aug. 4	+26.5	Nov. 2	+27.3
Apr. 1	+29.6	June 28	+27.5	Sept. 16	+26.4	Dec. 14	+27.5

7. U. S. Navy. Auxiliary airbase, about 2.5 miles southeast of Green Cove Springs. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 650 feet, cased to 276. Land-surface datum is 12.14 feet above msl. Highest water level 27.2 above lsd, Nov. 10, 1940; lowest 11.8 above lsd, May 28, 1953. Records available: 1940-42, 1946-47, 1949-54.

Feb. 5	+16.7	May 19	+14.0	Aug. 4	+12.3	Nov. 2	+16.8
Apr. 1	+17.4	June 28	+15.1	Sept. 16	+12.8	Dec. 14	+17.9

8. St. Elmo Hotel. North of St. Elmo Hotel in Green Cove Springs. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 600 feet, cased to about 150. Land-surface datum is 15.89 feet above msl. Highest water level 22.5 above lsd, July 15, 1947; lowest 15.2 above lsd, July 16, 1952. Records available: 1934-35, 1940-42, 1944-54.

Feb. 5	+20.5	May 19	+19.0	Aug. 4	+18.2	Nov. 2	+20.3
Apr. 1	+17.3	June 28	+18.5	Sept. 16	+18.2	Dec. 14	+18.2

22. U. S. Navy. Auxiliary airbase, about 2.5 miles southeast of Green Cove Springs. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 650 feet, cased to 282. Highest water level 23.5 above lsd, Sept. 4, 1946; lowest 11.5 above lsd, May 28, 1953. Records available: 1946-54.

Feb. 5	+16.1	May 19	+13.1	Aug. 3	+11.7	Nov. 2	+16.1
Apr. 1	+16.3	June 28	+13.5	Sept. 16	+12.9	Dec. 14	+17.5

### Collier County

C130. U. S. Geol. Survey. North 4th Ave. and 2d St., Naples. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 4, T. 50 S., R. 25 E. Drilled observation water-table well in limestone of Tamiami formation, diameter 6 inches, depth 71 feet, cased to 69. Land-surface datum is 5.39 feet above msl. Highest water level 4.95 above msl, Oct. 9, 1953, Sept. 1, 1954; lowest 1.25 above msl, May 26, 1953. Records available: 1952-54. Water levels affected by tides.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.62	2.40	3.08	2.53	3.04	3.92	3.35	3.94	4.95	3.85	3.09	2.57
2	2.63	2.35	2.98	2.56	3.12	4.22	3.28	3.75	4.68	3.89	2.98	2.54
3	2.71	2.46	3.05	2.45	3.20	3.98	3.52	3.65	4.32	3.78	2.95	2.57
4	2.72	2.47	3.06	2.46	3.15	3.82	3.73	3.54	4.15	3.63	2.88	2.54
5	2.60	2.48	2.90	2.60	3.31	3.72	3.60	3.44	4.00	3.49	2.81	2.61
6	2.64	2.40	3.00	2.55	3.11	3.58	3.47	3.38	3.82	3.62	2.79	2.74
7	2.63	2.34	3.08	2.48	2.97	4.00	3.36	3.33	3.70	3.62	2.80	2.59
8	2.58	2.47	2.94	2.60	2.89	3.98	3.60	3.34	3.62	3.69	2.80	2.50
9	2.53	2.40	3.13	2.68	2.83	3.82	3.52	3.57	3.58	3.69	2.75	2.57
10	2.57	2.28	3.03	2.65	2.78	3.67	3.53	3.48	3.50	3.73	2.78	2.62
11	2.87	2.27	2.95	2.61	2.73	3.56	3.38	3.35	3.48	3.73	2.80	2.63
12	2.75	2.25	2.89	2.60	3.15	3.50	3.33	3.27	3.52	3.64	2.82	2.59
13	2.63	2.17	2.82	2.75	3.66	3.85	3.28	3.18	3.97	3.55	3.06	2.63
14	2.52	2.30	2.88	2.79	3.58	3.95	3.18	3.28	4.01	3.48	3.19	2.73
15	2.55	2.30	2.88	3.35	3.57	4.55	3.78	3.25	4.11	3.46	3.23	2.70
16	2.65	2.15	2.69	3.32	3.57	4.64	3.72	3.45	4.19	3.47	3.20	2.51
17	2.68	2.11	2.57	3.18	3.41	4.32	3.58	3.55	4.13	3.31	3.20	2.46
18	2.69	2.12	2.63	3.07	3.29	4.11	4.07	3.43	4.11	3.23	3.15	2.80
19	2.53	2.09	2.85	3.00	3.20	4.00	4.14	3.34	4.18	3.22	3.05	2.81
20	2.53	2.09	3.20	2.86	3.38	3.92	3.93	3.67	4.10	3.22	3.03	2.78
21	2.48	2.06	3.24	3.43	3.45	3.82	3.77	3.75	3.77	3.17	3.02	2.67
22	2.47	2.10	3.08	3.58	3.26	4.17	3.68	3.78	3.90	3.16	2.98	2.58
23	2.58	1.95	2.98	3.83	3.14	4.10	3.57	3.68	3.90	3.05	2.97	2.51
24	2.45	2.27	2.90	3.74	3.05	3.92	3.77	3.55	3.80	3.09	2.92	2.53
25	2.47	2.16	2.78	3.60	2.97	3.77	3.95	4.08	4.07	3.10	2.90	2.55
26	2.40	2.12	2.73	3.49	3.15	3.78	4.30	4.08	4.08	3.09	2.89	2.48
27	2.35	2.09	2.68	3.43	3.39	3.75	4.07	3.88	4.24	3.12	2.75	2.49
28	2.32	3.10	2.65	3.25	3.31	3.62	3.87	3.73	4.10	3.29	2.79	2.37
29	2.25		2.63	3.20	3.23	3.50	4.18	4.47	3.94	3.35	2.78	2.34
30	2.29		2.55	3.12	3.22	3.42	4.23	4.42	3.97	3.45	2.63	2.28
31	2.35		2.52		3.47		4.00	4.43		3.23		2.40

C130--Continued.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.32	1.68	2.76	1.83	2.60	3.47	2.82	3.61	4.37	3.50	2.53	1.91
2	2.17	1.55	2.50	1.86	2.70	3.86	2.62	3.38	4.25	3.72	2.47	2.07
3	2.28	1.55	2.45	1.85	2.80	3.64	2.57	3.18	4.11	3.55	2.05	1.97
4	2.12	1.60	2.68	2.20	2.68	3.62	3.50	3.20	3.91	3.40	2.18	2.08
5	2.18	1.75	2.54	2.28	2.71	3.47	3.35	2.78	3.73	3.22	2.30	2.10
6	2.43	1.95	2.55	2.18	2.80	3.39	2.98	2.82	3.56	3.18	2.33	2.52
7	2.22	1.97	2.75	2.09	2.47	3.22	2.92	3.01	3.53	3.47	2.35	2.34
8	2.01	2.19	2.62	2.26	2.48	3.73	3.32	3.02	3.32	3.47	2.09	1.87
9	2.01	2.00	2.62	2.55	2.57	3.55	3.13	3.20	3.07	3.46	1.81	1.68
10	2.30	1.71	2.85	2.53	1.77	3.26	3.00	3.06	3.11	3.52	1.87	2.28
11	2.44	1.71	2.65	2.36	1.75	3.02	2.81	2.83	3.15	3.46	2.09	1.78
12	2.58	1.78	2.57	2.07	2.55	2.99	2.94	2.70	3.22	3.30	2.15	2.18
13	2.45	1.64	2.31	2.55	3.15	2.94	2.82	2.80	3.32	3.27	2.30	1.99
14	2.20	1.80	2.35	2.54	3.17	3.83	2.65	3.02	3.79	2.94	2.94	2.40
15	2.17	1.58	2.45	2.60	3.34	3.82	3.12	2.99	3.70	3.19	2.82	2.22
16	2.38	1.53	2.09	3.00	3.27	4.22	3.43	2.74	3.87	3.07	2.73	1.90
17	2.35	1.52	2.00	2.87	3.00	4.02	3.37	3.05	3.63	3.03	3.00	1.72
18	2.19	1.52	1.94	2.77	2.78	3.86	3.46	2.88	3.81	2.73	2.83	2.28
19	2.00	1.50	2.02	2.50	2.56	3.78	3.80	2.86	3.90	2.79	2.62	2.63
20	1.95	1.58	2.85	2.50	2.85	3.70	3.65	2.74	3.77	2.62	2.79	2.44
21	1.83	1.58	2.90	2.55	3.13	3.57	3.23	3.33	3.41	2.53	2.74	2.33
22	2.18	1.36	2.72	3.41	3.01	3.60	3.00	3.55	3.52	2.23	2.33	2.08
23	2.24	1.38	2.45	3.45	2.92	3.84	2.87	3.38	3.71	2.65	2.52	1.91
24	2.09	1.59	2.35	3.55	2.48	3.64	3.40	3.02	3.50	2.34	2.53	2.11
25	2.12	1.74	2.21	3.45	2.26	3.32	3.55	3.32	3.51	2.33	2.46	2.17
26	1.94	1.61	2.20	3.32	2.68	3.46	3.87	3.73	3.76	2.49	2.23	2.03
27	1.86	1.58	2.17	3.20	3.15	3.35	3.54	3.55	3.83	2.26	2.29	1.51
28	1.70	2.05	2.27	2.77	2.97	3.17	3.55	3.45	3.78	2.27	2.21	1.74
29	1.80		1.95	2.68	2.77	3.00	3.58	3.51	3.70	3.02	1.83	1.74
30	1.92		2.05	2.55	2.81	2.90	3.85	4.10	3.62	3.05	2.13	1.65
31	2.00		1.86		3.05		3.84	4.12		2.82		1.90

C131. U. S. Geol. Survey. On Florida Highway 846, 8 miles east of Immokalee, SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, T. 47 S., R. 30 E. Drilled observation water-table well in limestone of Tamiami formation, diameter 6 inches, depth 54 feet, cased to 22. Land-surface datum is 26.60 feet above msl. Highest water level 26.72 above msl, Oct. 9, 1953; lowest 22.33 above msl, June 2, 1953. Records available: 1952-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.03	24.05	24.48	e23.30	24.65	25.98	26.01	.....	26.30	.....	25.29	24.70
2	24.97	24.04	24.23	e23.27	24.41	.....	25.95	.....	26.25	.....	25.26	24.70
3	24.92	24.02	24.15	e23.25	24.34	.....	25.85	.....	.....	.....	25.15	24.65
4	24.87	23.97	24.04	e23.23	24.18	.....	25.82	.....	.....	.....	25.12	24.59
5	24.83	23.92	23.97	e23.22	24.09	.....	25.77	.....	.....	.....	25.10	24.57
6	24.77	23.87	24.66	e23.20	23.96	.....	25.74	.....	.....	.....	25.04	24.88
7	24.70	23.87	24.49	23.60	23.85	26.14	26.02	.....	.....	26.41	24.99	24.57
8	24.67	24.38	24.23	24.13	23.76	26.04	26.16	.....	.....	26.38	24.93	24.53
9	24.67	24.11	24.71	24.07	23.67	25.96	26.11	.....	.....	26.33	24.90	24.51
10	24.64	24.03	24.38	23.96	23.58	25.90	26.06	.....	.....	26.39	24.84	24.60
11	25.02	23.90	24.23	23.80	23.52	25.83	26.00	.....	.....	26.35	24.83	24.43
12	24.67	23.93	24.10	23.70	23.56	25.96	26.15	.....	.....	26.30	25.55	24.42
13	24.60	23.80	24.04	23.59	e25.65	25.77	26.12	.....	.....	26.24	25.70	24.87
14	24.67	23.77	23.96	23.52	.....	25.78	26.12	.....	.....	26.24	25.67	24.94
15	24.70	23.77	23.84	23.76	.....	25.74	26.15	.....	.....	26.16	25.54	24.62
16	24.60	23.74	23.75	23.48	.....	.....	26.22	.....	.....	26.07	25.42	24.51
17	24.48	23.70	23.71	23.40	.....	.....	26.13	.....	.....	26.01	25.57	24.47
18	24.59	23.67	23.66	23.35	.....	.....	26.04	.....	.....	25.97	25.40	25.48
19	24.52	23.65	23.65	23.25	.....	.....	25.95	.....	.....	25.90	25.29	25.19
20	24.49	23.61	24.34	23.29	.....	.....	25.90	.....	.....	25.85	25.35	25.02
21	24.47	23.58	24.37	23.98	.....	.....	25.81	.....	.....	25.81	25.16	24.92
22	24.67	23.55	23.97	24.43	.....	26.50	25.75	.....	.....	25.74	25.20	24.84
23	24.40	23.51	23.88	24.31	.....	26.48	25.90	.....	.....	25.67	25.74	24.80
24	24.36	23.75	23.77	24.22	.....	26.45	26.09	.....	.....	25.63	25.17	24.73
25	24.33	23.66	23.69	e24.10	.....	26.40	26.07	.....	.....	25.59	25.03	24.69

## C131--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	24.30	23.60	23.61	e24.05	.....	26.35	26.02	.....	.....	25.56	24.83	24.64
27	24.28	23.55	23.55	e23.95	.....	26.28	25.96	.....	.....	25.54	24.79	24.60
28	24.25	24.67	23.50	e23.90	.....	26.22	25.90	.....	.....	25.50	24.71	24.55
29	24.20		23.45	e23.85	.....	26.18	26.05	.....	.....	25.47	24.70	24.52
30	24.12		23.40	24.92	25.55	26.10	26.02	.....	.....	25.57	24.70	24.48
31	24.08		23.33		25.41		26.15	.....		25.34		24.46

e Estimated.

## Columbia County

9. City of Lake City. Sec. 5, T. 4 S., R. 17 E. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, reported depth 836 feet. Highest water level 79.58 below lsd, June 5, 1948; lowest 93.32 below lsd, Dec. 27, 31, 1954. Records available: 1948-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	89.75	89.14	88.82	89.19	89.62	90.05	90.75	91.12	91.64	92.09	92.67	93.11
2	89.66	88.99	88.94	89.29	89.59	90.01	90.77	91.10	91.73	92.08	92.65	92.93
3	89.62	88.84	88.92	89.30	89.51	90.03	90.76	91.15	91.76	92.10	92.74	92.92
4	89.58	88.82	89.08	89.31	89.49	90.05	90.75	91.20	91.82	92.12	92.65	92.96
5	89.44	88.85	89.05	89.37	89.50	90.19	90.70	91.21	91.87	92.13	92.60	92.86
6	89.46	88.90	89.01	89.35	89.55	90.25	90.69	91.14	91.87	92.15	92.66	92.80
7	89.55	88.93	88.99	89.30	89.58	90.27	90.70	91.13	91.85	92.23	92.73	93.12
8	89.55	88.85	88.98	89.27	89.63	90.25	90.73	91.19	91.82	92.30	92.79	93.12
9	89.49	88.82	88.85	89.32	89.70	90.25	90.65	91.20	91.77	92.27	92.80	93.01
10	89.32	88.79	88.80	89.43	89.74	90.26	90.64	91.21	91.74	92.20	92.65	93.10
11	89.22	88.77	88.82	89.43	89.70	90.23	90.65	91.24	91.75	92.16	92.88	93.15
12	89.45	88.96	88.84	89.40	89.64	90.29	90.70	91.29	91.80	92.16	92.85	93.10
13	89.55	89.11	88.86	89.41	89.54	90.34	90.75	91.36	91.88	92.20	92.80	92.80
14	89.46	89.07	88.82	89.35	89.63	90.35	90.78	91.42	91.90	92.13	92.70	92.80
15	89.30	89.03	89.07	89.36	89.74	90.32	90.80	91.47	91.88	92.02	92.65	92.85
16	89.10	88.97	89.22	89.29	89.80	90.32	90.84	91.45	91.89	92.27	92.60	93.08
17	89.24	88.90	89.20	89.33	89.80	90.38	90.86	91.45	91.88	92.43	92.62	93.03
18	89.31	88.94	89.09	89.47	89.75	90.42	90.90	91.48	91.86	92.44	92.65	92.95
19	89.27	88.94	88.94	89.51	89.76	90.40	90.91	91.50	91.85	92.38	92.60	93.03
20	89.24	88.90	88.84	89.54	89.78	90.42	90.91	91.50	91.85	92.39	92.59	93.10
21	89.18	88.87	88.92	89.49	89.90	90.45	90.91	91.55	91.85	92.40	92.69	93.13
22	89.07	88.95	89.08	89.48	89.96	90.50	90.91	91.62	91.85	92.49	92.73	93.08
23	89.21	88.93	89.07	89.48	90.00	90.53	90.88	91.62	91.92	92.58	92.73	93.09
24	89.27	88.68	89.12	89.51	90.04	90.53	90.86	91.62	91.99	92.59	92.75	93.10
25	89.27	88.77	89.13	89.52	90.04	90.55	90.90	91.57	91.98	92.56	92.79	93.20
26	89.24	88.73	89.15	89.50	90.05	90.55	90.95	91.57	91.93	92.54	92.87	93.27
27	89.16	88.75	89.10	89.46	90.00	90.54	90.97	91.60	91.91	92.51	92.84	93.26
28	89.15	88.64	89.10	89.40	89.92	90.54	91.00	91.62	91.93	92.49	92.73	93.21
29	89.16		89.11	89.43	89.94	90.57	91.05	91.56	92.01	92.60	92.97	93.17
30	89.13		89.09	89.56	90.06	90.65	91.11	91.51	92.08	92.50	93.15	93.25
31	89.15		89.12		90.10		91.15	91.56		92.59		93.28

## Dade County

F179. City of Miami. Southwest 24th Ter. and 32d Ave. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 77 feet. Land-surface datum is 8.77 feet above msl. Highest water level 7.21 above msl, Oct. 14, 1947; lowest 0.80 above msl, Mar. 9-11, 24-25, 1945. Records available: 1939-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.67	1.49	1.60	1.24	1.88	3.20	e2.85	2.40	2.01	2.33	e2.10	e1.63
2	1.65	1.49	1.61	1.24	1.87	3.25	2.78	2.30	2.28	2.45	e2.06	e1.58
3	1.64	1.51	1.57	1.29	1.85	3.20	2.69	2.20	2.30	2.46	e2.02	1.56
4	1.60	1.55	1.55	1.35	1.84	3.15	2.59	2.05	2.27	2.40	e1.98	e1.57
5	1.59	1.55	1.52	1.48	1.82	3.03	2.48	1.98	2.22	2.33	1.96	e1.59
6	1.57	1.57	1.53	1.64	1.80	2.93	2.36	1.95	2.19	2.35	1.92	1.62
7	1.56	1.56	1.54	1.67	1.78	2.90	2.28	1.92	2.18	2.71	1.89	1.60
8	1.51	1.55	1.54	1.77	1.76	e2.81	2.21	1.90	2.18	2.72	1.86	1.62
9	1.52	1.51	1.61	1.82	1.73	e2.72	2.15	1.87	2.17	2.70	1.84	1.63
10	1.55	1.48	1.63	1.84	1.70	e2.63	2.13	1.86	2.17	2.68	1.86	1.62

F179--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	1.57	1.45	1.64	1.85	1.69	2.55	2.14	1.85	2.18	2.68	1.90	1.61
12	1.53	1.43	1.63	1.88	1.93	2.48	2.12	1.84	2.30	2.75	2.08	1.57
13	1.48	1.41	1.59	1.88	2.61	2.43	2.14	1.84	2.40	2.77	2.16	1.53
14	1.47	1.40	1.55	1.89	2.62	2.45	e2.20	1.83	2.50	2.76	2.21	1.50
15	1.51	1.41	1.52	1.91	3.04	2.51	e2.52	1.81	2.55	2.71	2.26	1.42
16	1.50	1.39	1.47	1.92	3.07	2.53	2.62	1.77	2.60	2.64	2.29	1.39
17	1.47	1.36	1.42	1.90	3.09	2.52	2.63	1.72	2.61	2.54	2.26	1.35
18	1.45	1.33	1.41	1.85	2.96	2.95	2.63	1.67	2.67	2.44	2.21	1.31
19	1.44	1.33	1.44	1.81	2.83	3.03	2.61	1.63	2.70	2.40	2.25	1.27
20	1.44	1.33	1.50	1.79	2.72	3.24	2.56	1.58	2.68	2.39	2.19	1.22
21	1.42	1.33	1.49	1.76	2.67	3.26	2.49	1.55	2.62	2.38	2.15	1.19
22	1.42	1.31	1.44	1.86	2.60	3.65	2.41	1.56	2.55	2.38	2.07	1.15
23	1.40	1.29	1.43	1.92	2.55	3.69	2.45	1.55	2.48	2.37	2.02	1.13
24	1.38	1.33	1.40	1.92	2.50	3.64	2.39	1.54	2.41	2.34	1.97	1.13
25	1.39	1.31	1.38	1.89	2.46	3.54	2.88	1.55	2.37	2.31	1.92	1.12
26	1.44	1.30	1.37	1.88	2.43	3.43	2.92	e1.58	2.32	2.28	1.86	1.11
27	1.47	1.29	1.34	1.89	3.31	3.31	2.88	1.58	2.30	2.26	e1.81	1.09
28	1.49	1.56	1.31	1.89	3.34	e3.19	2.79	1.68	2.30	2.24	e1.76	1.09
29	1.49		1.29	1.89	3.26	e3.06	2.71	1.79	2.28	e2.22	e1.72	1.08
30	1.48		1.27	1.89	3.18	e2.94	2.61	1.83	2.23	e2.18	e1.67	1.05
31	1.49		1.26		3.08		2.51	1.90		e2.14		1.03

e Estimated.

F210. City of Miami. Northwest 62d St. and Miami Ct. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 53 S., R. 41 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 112 feet. Land-surface datum is 8.77 feet above msl. Highest water level 7.92 above msl, Oct. 12, 1947; lowest 0.24 above msl, Mar. 10-11, 1945. Records available: 1940-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.45	1.00	1.21	0.76	1.22	3.47	3.40	1.77	1.70	2.00	1.67	e1.55
2	1.42	1.01	1.22	.75	1.20	3.76	3.23	1.75	1.86	2.56	1.64	e1.52
3	1.39	1.03	1.19	.77	1.18	3.97	3.07	1.67	1.90	2.62	1.61	1.47
4	1.35	1.05	1.15	.81	1.17	4.35	2.91	1.60	1.87	2.58	1.60	1.44
5	1.33	1.07	1.12	.85	1.15	4.47	2.75	1.53	1.82	2.48	1.56	1.42
6	1.32	1.09	1.14	.95	1.15	4.26	2.62	1.50	1.77	2.40	1.55	1.38
7	1.28	1.08	1.15	1.14	1.14	4.06	2.58	1.45	1.73	2.34	1.51	1.36
8	1.27	1.06	1.10	1.45	1.13	3.80	2.47	1.44	1.70	2.30	1.47	1.35
9	1.25	1.01	1.17	1.54	1.12	3.60	2.38	1.49	1.68	2.30	1.46	1.35
10	1.25	1.00	1.22	1.57	1.10	3.40	2.30	1.48	1.69	2.28	1.44	1.33
11	1.27	.99	1.20	1.55	1.08	3.22	2.22	1.47	1.70	2.27	1.45	1.30
12	1.22	.97	1.17	1.50	1.23	3.07	2.19	1.45	1.97	2.27	2.35	1.28
13	1.20	.95	1.14	1.49	2.05	2.93	2.23	1.43	2.09	2.25	2.66	1.26
14	1.20	.94	1.10	1.47	2.12	2.85	2.15	1.40	2.20	2.25	2.69	1.25
15	1.20	.93	1.05	1.51	2.14	2.79	2.98	1.36	2.23	2.20	2.67	1.22
16	1.18	.89	1.00	1.48	2.12	3.08	3.07	1.33	2.21	2.13	2.60	1.18
17	1.15	.88	.95	1.42	2.05	3.40	3.04	1.31	2.17	2.07	2.53	1.15
18	1.14	.85	.93	1.34	1.98	4.55	2.92	1.26	2.27	2.02	2.43	1.12
19	1.13	.83	.96	1.30	1.90	4.45	2.80	1.23	2.30	1.99	2.33	1.09
20	1.12	.82	1.07	1.25	1.85	4.26	2.67	1.18	2.31	1.96	2.25	1.05
21	1.10	.81	1.05	1.27	1.79	3.90	2.55	1.15	2.26	1.95	2.17	1.02
22	1.08	.78	1.02	1.30	1.87	4.88	2.45	1.38	2.20	1.92	2.10	1.00
23	1.06	.77	1.00	1.35	1.77	4.93	2.35	1.40	2.12	1.90	2.03	.97
24	1.05	.80	.95	1.38	1.72	4.69	2.27	1.37	2.05	1.87	1.96	.95
25	1.05	.77	.92	1.35	1.68	4.49	2.21	1.33	2.00	1.83	1.90	.92
26	1.06	.77	.89	1.31	1.74	4.29	2.16	1.30	1.94	1.81	e1.80	.90
27	1.07	.77	.85	1.28	3.15	4.20	2.10	1.33	1.91	1.80	e1.75	.87
28	1.00	1.14	.83	1.27	3.30	4.00	2.03	1.39	1.88	1.79	e1.70	.85
29	.88		.81	1.25	3.25	3.78	1.97	1.52	1.84	1.78	e1.66	.83
30	.91		.80	1.24	3.14	3.59	1.87	1.57	1.80	1.75	e1.60	.83
31	.97		.78		3.03		1.83	1.60		1.71		.82

e Estimated.

F319. U. S. Geol. Survey. North First Ave. and Sunset Dr., South Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 54 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 17 feet, cased to 13. Land-surface datum is 11.12 feet above msl. Highest water level 8.86 above msl, Oct. 11, 1947; lowest 0.47 above msl, May 19, 1945. Records available: 1940-54.

F319--Continued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.23	1.75	1.80	1.86	1.96	4.07	3.45	3.37	2.83	2.98	2.45	2.12
2	2.18	1.74	1.86	1.84	1.98	4.44	3.36	3.25	3.17	3.06	2.40	2.08
3	2.17	1.75	1.90	1.83	2.00	4.23	3.25	3.14	3.22	3.08	2.35	2.05
4	2.11	1.77	1.92	1.84	2.01	4.07	3.13	3.04	3.18	3.05	2.32	2.04
5	2.09	1.79	1.95	2.28	2.02	3.90	3.00	2.95	3.11	2.99	2.26	2.04
6	2.06	1.79	1.97	2.32	2.03	3.75	2.90	2.84	3.04	2.97	2.22	2.03
7	2.04	1.78	1.99	2.37	2.02	3.60	2.81	2.77	3.00	3.04	2.18	2.05
8	2.03	1.74	1.99	2.43	2.01	3.47	2.73	2.72	2.96	3.04	2.15	2.05
9	2.02	1.72	2.05	2.45	1.99	3.33	2.76	2.67	2.92	3.05	2.13	2.05
10	2.02	1.69	2.08	2.42	1.97	3.21	2.73	2.62	2.90	3.04	2.14	2.03
11	2.04	1.66	2.10	2.36	1.95	3.08	2.71	2.59	2.88	3.06	2.17	2.01
12	1.99	1.63	2.11	2.30	2.07	2.99	2.76	2.57	3.04	3.08	2.34	1.99
13	1.97	1.61	2.09	2.25	2.69	2.91	2.82	2.56	3.20	3.10	2.44	1.96
14	1.96	1.60	2.08	2.22	2.77	2.95	2.87	2.52	3.32	3.11	2.51	1.94
15	1.96	1.58	2.04	2.20	3.06	2.91	3.12	2.49	3.35	3.08	2.61	1.90
16	1.94	1.56	2.01	2.17	3.20	2.94	3.25	2.46	3.34	3.01	2.64	1.87
17	1.93	1.53	1.98	2.13	3.20	2.96	3.28	2.42	3.40	2.94	2.65	1.83
18	1.90	1.51	1.97	2.09	3.11	3.11	3.26	2.38	3.55	2.88	2.63	1.79
19	1.88	1.50	1.98	2.08	3.00	3.19	3.21	2.33	3.58	2.83	2.60	1.76
20	1.87	1.49	2.03	2.09	2.90	3.23	3.14	2.28	3.56	2.80	2.57	1.72
21	1.85	1.48	2.05	2.15	2.80	3.24	3.08	2.32	3.48	2.78	2.53	1.68
22	1.83	1.45	2.03	2.17	2.95	3.27	3.03	2.33	3.40	2.78	2.48	1.65
23	1.80	1.43	2.02	2.19	2.92	3.35	3.02	2.34	3.31	2.76	2.44	1.61
24	1.79	1.45	2.01	2.13	2.88	3.41	3.15	2.36	3.21	2.73	2.40	1.60
25	1.77	1.46	1.99	2.06	2.83	3.42	3.85	2.40	3.15	2.69	2.35	1.58
26	1.79	1.46	1.97	2.01	2.81	3.38	3.99	2.43	3.08	2.66	2.32	1.57
27	1.79	1.48	1.95	1.96	4.09	3.65	3.89	2.43	3.03	2.63	2.28	1.54
28	1.80	1.72	1.93	1.93	4.40	3.76	3.76	2.42	2.99	2.61	2.24	1.53
29	1.79		1.90	1.92	4.28	3.69	3.65	2.59	2.98	2.59	2.20	1.50
30	1.78		1.89	1.94	4.40	3.57	3.58	2.67	2.93	2.55	2.16	1.48
31	1.77		1.87		4.18		3.47	2.74		2.50		1.45

F358. Town of Homestead. Northwest 6th St. and 2d Ave. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 57 S., R. 38 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 54 feet. Land-surface datum is 7.76 feet above msl. Highest water level 8.19 above msl, Oct. 5, 1948; lowest 0.85 below msl, May 24, 1945. Records available: 1940-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.85	2.33	2.73	2.17	3.25	5.82	4.77	5.00	4.99	5.15	3.79	2.85
2	2.82	2.31	2.83	2.12	3.16	5.68	4.65	4.84	4.91	5.39	3.73	2.82
3	2.81	2.33	2.86	2.10	3.06	5.51	4.54	4.70	4.78	5.25	3.67	2.79
4	2.80	2.29	2.84	2.17	3.11	5.36	4.42	4.58	4.69	5.10	3.61	e2.77
5	2.78	2.27	2.80	2.13	3.02	5.25	4.31	4.44	4.60	4.95	3.56	e2.76
6	2.76	2.24	2.77	2.13	2.91	5.11	4.22	4.72	4.53	4.91	3.49	e2.74
7	2.74	2.23	2.76	2.12	2.80	4.97	4.20	4.54	4.45	5.00	3.43	e2.72
8	2.71	2.30	2.72	2.41	2.69	4.84	4.14	4.38	4.37	4.91	3.37	e2.70
9	2.69	2.26	3.04	2.53	2.60	4.70	4.00	4.28	4.28	4.85	3.32	e2.68
10	2.69	2.24	3.07	2.56	2.50	4.58	4.30	4.25	4.18	4.79	3.28	e2.68
11	2.76	2.21	3.08	2.52	2.42	4.45	4.43	4.23	4.08	4.71	3.24	e2.64
12	2.77	2.18	3.00	2.47	2.92	4.34	4.38	4.19	4.23	4.64	3.20	e2.62
13	2.75	2.15	2.96	2.43	3.34	4.23	4.30	4.13	4.69	4.69	3.21	e2.60
14	2.72	2.12	2.90	2.37	3.37	4.29	4.29	4.07	4.64	4.58	3.36	e2.58
15	2.71	2.09	2.82	2.31	3.46	4.39	4.41	4.00	4.59	4.48	3.37	e2.56
16	2.72	2.08	2.75	2.26	4.38	4.76	4.40	3.92	4.50	4.39	3.33	e2.54
17	2.69	2.06	2.67	2.20	4.33	4.78	4.34	3.84	4.44	4.29	3.26	e2.53
18	2.66	2.03	2.61	2.15	4.23	5.54	4.29	3.79	4.48	4.21	3.23	e2.51
19	2.64	2.00	2.57	2.11	4.10	5.37	4.20	3.69	4.99	4.13	3.19	e2.49
20	2.62	1.98	2.85	2.08	3.98	5.22	4.11	3.63	4.73	4.06	3.16	e2.49
21	2.60	1.95	2.82	2.07	3.89	5.31	4.20	3.57	4.65	4.00	3.12	e2.45
22	2.58	1.92	2.76	2.12	4.52	5.17	4.25	3.74	4.55	4.09	3.09	e2.43
23	2.55	1.91	2.69	3.07	4.44	5.47	4.15	3.71	4.50	4.01	3.14	e2.41
24	2.52	1.89	2.62	3.22	4.33	5.58	4.60	3.67	4.42	3.96	3.10	e2.39
25	2.49	1.87	2.56	3.25	4.19	5.34	4.99	3.67	4.38	3.91	3.06	e2.37
26	2.46	1.85	2.50	3.19	4.30	5.30	4.91	4.32	4.34	3.87	3.01	e2.35
27	2.44	1.83	2.46	3.17	6.19	5.20	4.90	4.50	4.44	3.82	2.98	e2.33
28	2.42	2.48	2.40	3.10	5.80	5.17	4.95	4.21	4.52	3.80	2.95	e2.31
29	2.39		2.34	3.19	5.67	5.04	5.57	4.54	4.50	3.96	2.91	2.28
30	2.37		2.28	3.29	6.72	4.91	5.33	4.56	4.46	3.92	2.88	2.26
31	2.35		2.23		5.99		5.17	4.80		3.85		2.24

e Estimated.

G3. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 53 S., R. 40 E. Dug and driven water-table well in oolitic limestone of Biscayne aquifer, diameter 6 inches, depth 9 feet, cased to 8. Land-surface datum is 4.88 feet above msl. Highest water level 7.64 above msl, Oct. 12, 1947; lowest 0.82 below msl, Feb. 19, 1950. Records available: 1940-54. Affected by pumping of nearby wells.

Daily lowest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+1.02	+0.21	+0.06	-0.64	+0.06	+1.25	+1.59	+0.80	+0.76	+1.47	+1.11	+0.99
2	1.05	.20	-.02	.68	.08	1.40	1.44	.67	.91	1.79	1.09	.92
3	.98	.16	.10	.68	+.06	2.18	1.31	.55	1.09	2.17	1.31	1.13
4	.90	.22	.12	.59	-.05	2.21	1.19	.44	1.11	2.08	1.21	.92
5	.81	.15	.17	.53	-.01	2.40	1.16	.41	1.10	2.03	1.05	.86
6	.76	.14	.22	.36	+.05	2.28	1.08	.42	.95	1.64	1.04	.97
7	.75	.18	.20	.27	+.01	2.02	1.14	.25	1.06	1.62	1.13	.96
8	.74	.13	.21	-.15	-.13	1.82	1.17	.20	.82	1.66	1.03	.95
9	.66	.23	-.20	+.09	.16	1.55	1.09	.23	.81	1.84	1.03	.83
10	.64	+.12	+.06	.12	.14	1.37	1.07	.42	.82	2.11	1.11	.78
11	.70	0.00	0.00	.49	.20	1.15	1.84	.42	1.07	2.30	1.07	.71
12	.93	-.04	-.07	....	.14	1.03	1.74	.42	.98	2.15	1.07	.78
13	.98	.11	.19	....	-.03	.91	1.52	.29	1.11	1.88	2.50	.73
14	.98	.11	.30	.35	+.44	.91	1.40	.18	1.41	1.77	2.39	.75
15	1.01	.08	.35	.25	.78	1.21	1.48	.14	1.62	1.68	2.08	.68
16	1.10	.18	.39	.24	.95	1.14	1.38	.12	....	1.64	1.86	.63
17	1.07	.19	.38	.17	.87	1.08	1.29	+.08	1.45	1.48	1.97	.57
18	1.03	.19	.33	.17	.80	1.12	1.22	-.01	2.05	1.42	1.95	.61
19	1.08	.28	.35	.22	.73	1.40	1.25	.09	2.27	1.37	1.94	.57
20	.81	....	.27	.08	.47	1.68	1.07	.11	2.06	1.40	1.97	.60
21	.72	....	.06	.04	.31	1.69	.99	.15	2.04	1.38	1.88	.63
22	.52	....	.12	.05	.17	1.69	.94	-.15	2.13	1.55	1.65	e.37
23	.52	....	.12	.05	.11	2.23	.99	+.34	2.03	1.59	1.67	.31
24	.80	....	.28	.13	.13	2.11	.99	.43	1.90	1.65	1.65	.26
25	.75	....	.37	.22	.09	2.13	1.19	.42	1.67	1.35	1.65	.25
26	.65	.49	.41	.19	.03	2.25	1.27	.43	1.66	1.26	1.57	.27
27	.54	.43	.49	.09	.15	2.20	1.24	.44	1.60	1.14	1.30	.24
28	.40	.46	.54	.08	.10	2.08	1.10	.51	1.52	1.14	1.23	.19
29	.33		.54	.25	1.31	1.87	1.05	.64	1.51	1.35	1.12	.18
30	.28		.62	.15	1.25	1.74	.96	.64	1.47	1.33	.99	.13
31	.21		.63		1.13		.95	.71		1.23		.06

e Estimated.

G10. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, T. 54 S., R. 40 E. Dug and driven observation water-table well in oolitic limestone of Biscayne aquifer, diameter 8 inches, depth 6 feet, cased to 6. Land-surface datum is 5.64 feet above msl. Highest water level 8.92 above msl, Oct. 13, 1947; lowest 0.53 above msl, June 20-21, 1945. Records available: 1940-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.01	3.29	3.80	2.79	3.52	5.09	4.64	4.39	4.67	5.04	3.80	3.74
2	3.98	3.28	3.60	2.75	3.46	4.99	4.50	4.24	4.87	5.08	3.80	3.69
3	3.96	3.27	3.48	2.77	3.40	5.51	4.40	4.13	4.40	4.77	3.78	3.62
4	3.92	3.32	3.37	2.80	3.35	5.59	4.27	4.06	4.27	4.61	3.76	3.59
5	3.89	3.25	3.30	3.24	3.33	5.36	4.20	3.99	4.20	4.50	3.73	3.58
6	3.86	3.23	3.28	3.62	3.49	5.27	4.65	3.92	4.15	4.85	3.70	3.59
7	3.81	3.22	3.46	3.88	3.30	5.09	5.00	3.87	4.39	4.83	3.67	3.53
8	3.80	3.34	3.30	5.04	3.23	4.91	5.23	3.83	4.10	4.60	3.66	3.52
9	3.79	3.21	3.71	4.62	3.16	4.72	4.90	4.26	4.04	4.58	3.65	3.51
10	3.82	3.17	3.59	4.50	3.10	4.55	5.30	3.94	3.97	4.99	3.71	3.47
11	4.19	3.13	3.46	4.21	3.06	4.37	4.93	3.90	4.02	5.05	3.72	3.44
12	3.90	3.09	3.40	4.03	3.70	4.21	5.05	3.85	4.66	4.65	5.05	3.41
13	3.82	3.05	3.34	4.06	4.81	4.06	4.72	3.77	4.80	4.63	4.86	3.39
14	3.78	3.02	3.27	3.88	4.32	4.66	e4.66	3.75	4.64	4.54	4.72	3.35
15	3.77	3.00	3.19	3.77	4.71	4.41	e4.94	4.01	4.58	4.40	4.92	3.31
16	3.74	2.96	3.13	3.66	4.46	4.63	4.67	3.76	4.49	4.28	4.67	3.27
17	3.70	2.95	3.08	3.57	4.33	4.73	4.53	e3.73	4.62	4.18	4.56	3.26
18	3.67	2.92	3.06	3.49	4.14	4.94	4.43	e3.70	5.13	4.12	4.60	3.45
19	3.66	2.90	3.03	3.42	4.18	4.93	e4.36	e3.67	5.04	4.06	4.41	3.35
20	3.73	2.88	3.36	3.40	4.00	4.95	e4.30	3.56	4.83	4.01	4.55	3.26
21	3.62	2.90	3.38	4.10	3.89	4.67	e4.24	3.97	4.53	4.00	4.30	3.21
22	3.56	2.86	3.28	3.79	3.97	5.38	....	4.15	4.46	3.99	4.20	3.19
23	3.51	2.84	3.17	4.29	3.85	5.09	4.46	3.98	4.36	3.96	4.30	3.19
24	3.48	2.87	3.10	4.00	3.76	5.30	4.38	3.92	4.26	3.94	4.10	3.19
25	3.45	2.83	3.04	3.84	3.67	5.47	4.65	3.90	4.30	3.91	4.03	3.18



## G10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	3.44	2.83	2.99	4.06	3.98	5.62	4.41	3.82	4.38	3.88	3.97	3.17
27	3.42	2.81	2.94	4.16	5.38	5.24	4.50	3.80	4.22	3.93	3.91	3.16
28	3.39	4.06	2.92	3.79	5.67	5.06	5.22	3.74	4.63	4.13	3.87	3.15
29	3.36		2.88	3.70	5.39	4.89	4.90	3.73	4.24	4.05	3.83	3.18
30	3.33		2.85	3.60	5.55	4.74	4.71	3.77	4.15	3.94	3.79	3.18
31	3.31		2.82		5.20		4.56	3.85		3.85		3.17

e Estimated.

G39. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 54 S., R. 40 E. Dug observation water-table well in oolitic limestone of Biscayne aquifer, diameter 6 inches, depth 6 feet, cased to 6. Land-surface datum is 8.08 feet above msl. Highest water level 8.99 above msl, Sept. 21, 1940; lowest 1.73 above msl, Apr. 12, 1945. Records available: 1940-43, 1945, 1947, 1949-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.73	3.59	3.26	3.21	3.84	e5.98	6.15	5.66	4.32	5.13	4.43	4.27
2	4.69	3.56	3.35	3.17	3.79	5.94	6.01	5.56	4.44	5.31	4.39	4.23
3	4.66	3.53	3.44	3.13	3.73	e5.93	5.90	5.47	4.48	5.35	4.35	4.18
4	4.61	3.49	3.49	3.09	3.68	5.92	5.79	5.37	4.50	5.33	4.31	4.15
5	4.57	3.46	3.53	3.39	3.62	5.90	5.68	5.27	4.49	5.29	4.28	4.11
6	4.53	3.43	3.58	3.41	3.56	5.85	5.58	5.15	4.48	5.26	4.24	4.06
7	4.47	3.42	3.60	3.46	3.53	5.77	5.57	5.05	4.46	5.39	4.20	4.03
8	4.43	3.41	3.62	3.72	3.48	5.69	5.55	4.96	4.43	5.40	4.16	3.99
9	4.38	3.39	3.69	3.88	3.44	5.60	5.51	4.90	4.40	5.43	4.13	3.96
10	4.35	3.37	3.72	4.00	3.40	5.53	5.74	4.80	4.36	5.44	4.10	3.95
11	4.33	3.36	3.76	4.04	3.35	....	5.86	4.71	4.34	5.46	4.06	3.93
12	4.27	3.33	3.79	4.07	3.52	....	6.27	4.64	4.62	5.42	4.26	3.90
13	4.21	3.31	3.81	4.07	3.78	....	6.36	4.56	4.76	5.48	4.34	3.88
14	4.16	3.29	3.82	4.05	3.88	....	6.33	4.49	4.88	5.43	4.44	3.86
15	4.12	3.27	3.80	4.02	4.35	....	e6.29	4.44	4.93	5.37	4.53	3.83
16	4.08	3.24	3.77	3.99	4.60	5.34	6.37	4.39	4.94	5.29	4.59	3.81
17	4.04	3.20	3.73	3.97	4.72	5.44	6.25	4.33	5.06	5.22	4.62	3.77
18	3.99	3.17	3.68	3.92	4.74	5.83	6.13	4.26	5.24	5.15	4.63	3.77
19	3.96	3.12	3.63	3.88	4.72	5.90	6.00	4.19	5.33	5.08	4.62	3.75
20	3.93	3.08	3.64	3.83	4.71	5.99	5.88	4.13	5.34	5.01	4.61	3.73
21	3.88	3.06	3.59	3.88	4.66	6.00	6.11	4.10	5.31	4.95	4.60	3.71
22	3.88	3.02	3.56	3.92	4.67	6.05	6.19	4.14	5.28	4.89	4.57	3.69
23	3.86	3.00	3.53	3.94	4.68	6.06	6.10	4.14	5.24	4.83	4.55	3.67
24	3.84	2.96	3.51	3.96	4.64	6.22	6.01	4.15	5.18	4.78	4.51	3.65
25	3.80	2.94	3.47	3.99	4.58	6.43	6.12	4.16	5.13	4.72	4.48	3.64
26	3.77	2.94	3.44	3.99	4.53	6.73	5.95	4.17	5.09	4.66	4.45	3.63
27	3.73	2.92	3.42	3.97	5.38	6.68	5.85	4.16	5.05	4.60	4.42	3.60
28	3.70	3.20	3.39	3.94	5.76	6.56	5.79	4.13	5.02	4.54	4.38	3.58
29	3.67		3.36	3.92	5.85	6.42	5.77	4.12	4.98	4.52	4.34	3.56
30	3.64		3.31	3.68	e6.00	6.28	5.73	4.08	4.95	4.49	4.30	3.54
31	3.62		3.26		5.96		5.76	4.06		4.47		3.53

e Estimated.

G72. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, T. 52 S., R. 39 E. Dug observation water-table well in oolitic limestone of Biscayne aquifer, diameter 8 inches, depth 5 feet, cased to 4. Land-surface datum is 5.75 feet above msl. Highest water level 9.38 above msl, Oct. 11, 1947; lowest 1.14 above msl, June 5, 1945. Records available: 1940-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.66	6.39	6.21	5.96	5.67	6.17	6.56	6.71	6.76	6.99	6.88	6.80
2	6.64	6.38	6.20	5.90	5.64	6.21	6.55	6.70	6.77	7.03	6.86	6.79
3	6.63	6.37	6.19	5.93	5.60	6.28	6.54	6.69	6.77	7.02	6.85	6.78
4	6.62	6.35	6.18	5.86	5.58	6.26	6.53	6.69	6.77	7.01	6.84	6.77
5	6.61	6.34	6.16	5.81	5.66	6.28	....	6.69	6.77	6.99	6.83	6.76
6	6.60	6.32	6.15	5.78	5.60	6.25	6.53	6.68	6.77	6.99	6.82	6.75
7	6.59	6.31	6.18	5.77	5.55	6.24	6.56	6.67	6.76	6.99	6.81	6.74
8	6.57	6.29	6.15	5.86	5.51	6.23	....	6.66	6.75	7.00	6.80	6.73
9	6.57	6.28	6.18	5.85	5.47	6.23	....	6.66	6.73	7.05	6.79	6.72
10	6.56	6.27	6.17	5.87	5.43	6.22	....	6.70	6.72	7.03	6.79	6.71
11	6.56	6.27	6.16	5.87	5.40	6.21	....	6.70	6.72	7.03	6.80	6.70
12	6.55	6.26	6.14	5.87	5.47	6.32	6.60	6.69	6.73	7.02	6.91	6.69
13	6.54	6.25	6.13	5.99	5.71	6.23	6.59	6.69	6.80	7.06	6.93	6.68
14	6.53	6.25	6.12	5.95	5.75	6.23	6.67	6.68	6.79	7.03	6.95	6.67
15	6.53	6.25	6.11	5.97	5.81	6.24	6.67	6.67	6.78	7.01	6.93	6.67

G72--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	6.52	6.24	6.11	5.96	5.96	6.29	6.66	6.67	6.80	7.00	6.92	6.66
17	6.51	6.23	6.10	5.94	5.96	6.30	6.66	6.66	6.85	6.99	6.91	6.65
18	6.50	6.22	6.09	5.91	5.95	6.41	6.65	6.66	6.86	6.96	6.90	6.67
19	6.50	6.21	6.06	5.88	5.97	6.48	6.63	6.66	6.89	6.95	6.89	6.66
20	6.49	6.21	6.14	5.84	5.96	6.47	6.63	6.67	6.90	6.93	6.91	6.64
21	6.49	6.20	6.12	5.82	5.96	6.46	6.63	6.66	6.93	6.93	6.89	6.63
22	6.48	6.18	6.11	5.79	5.99	6.55	6.64	6.69	6.90	6.92	6.88	6.62
23	6.48	6.16	6.10	5.80	5.96	6.53	6.64	6.68	6.92	6.91	6.89	6.61
24	6.47	6.15	6.08	5.83	5.94	6.52	6.69	6.67	6.91	6.91	6.88	6.60
25	6.45	6.15	6.07	5.84	5.93	6.56	6.70	6.66	6.92	6.91	6.87	6.59
26	6.44	6.14	6.06	5.80	5.95	6.57	6.71	6.74	6.92	6.90	6.86	6.58
27	6.43	6.13	6.04	5.78	6.10	6.57	6.71	6.72	6.91	6.93	6.85	6.59
28	6.43	6.22	6.01	5.75	6.09	6.59	6.71	6.70	6.91	6.97	6.83	6.58
29	6.42		5.99	5.72	6.07	6.58	6.71	6.70	6.91	6.94	6.82	6.57
30	6.41		5.98	5.69	6.08	6.57	6.70	6.72	6.91	6.93	6.81	6.56
31	6.40		5.97		6.07		6.72	6.72		6.90		6.56

G218. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 53 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 71 feet, cased to 70. Land-surface datum is 5.25 feet above msl. Highest water level 8.95 above msl, Oct. 12, 1947; lowest 1.20 above msl, May 19, 1945. Records available: 1945-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.84	5.52	5.38	4.82	5.25	5.62	6.05	5.88	5.86	6.21	6.03	6.05
2	5.82	5.51	5.40	4.72	5.20	5.72	6.03	5.88	5.95	6.31	6.02	6.05
3	5.81	5.50	5.41	4.65	5.12	5.77	5.99	5.86	5.98	....	6.00	6.03
4	....	5.50	5.42	4.60	5.03	5.89	5.94	5.85	6.02	....	5.98	6.00
5	....	5.48	5.41	4.63	4.95	5.90	5.92	5.85	6.00	....	5.97	5.98
6	....	5.48	5.39	4.65	4.86	5.88	5.89	5.84	6.00	....	5.97	5.97
7	....	5.46	5.40	4.91	4.73	5.87	5.89	5.82	5.99	....	5.96	5.95
8	....	5.46	5.39	5.28	4.62	5.87	5.89	5.80	5.99	....	5.95	5.94
9	....	5.45	5.38	5.31	4.52	5.86	5.88	5.80	5.99	....	5.95	5.91
10	....	5.45	5.40	5.37	4.42	5.82	5.88	5.80	5.98	....	5.92	5.91
11	....	5.45	5.41	5.37	4.30	5.80	5.88	5.80	5.95	....	5.91	5.90
12	....	5.45	5.40	5.38	4.67	5.75	5.87	5.80	5.93	....	6.22	5.89
13	....	5.44	5.40	5.38	4.93	5.72	5.87	5.80	6.03	....	6.24	5.88
14	....	5.42	5.39	5.38	5.00	5.70	5.86	5.80	6.05	....	6.25	5.87
15	....	5.41	5.37	5.37	5.09	5.70	5.94	5.78	6.05	....	6.27	5.86
16	....	5.40	5.33	5.35	5.28	5.70	5.95	5.75	6.05	....	6.28	5.85
17	....	5.37	5.30	5.30	5.35	5.72	5.95	5.75	6.11	....	6.27	5.84
18	....	5.36	5.26	5.27	5.36	5.75	5.95	5.75	6.17	....	6.26	5.84
19	....	5.35	5.24	5.22	5.36	5.83	5.95	5.73	6.20	....	6.24	5.84
20	....	5.35	5.30	5.15	5.33	5.86	5.93	5.72	6.20	....	6.23	5.83
21	....	5.33	5.30	5.13	5.31	5.90	5.93	5.72	6.20	....	6.21	5.82
22	....	5.32	5.30	5.10	5.30	5.95	5.92	5.75	6.20	....	6.19	5.80
23	....	5.29	5.30	5.15	5.30	6.03	5.90	5.76	6.20	....	6.18	5.78
24	....	5.29	5.29	5.18	5.29	6.04	5.90	5.78	6.20	....	6.16	5.75
25	....	5.29	5.27	5.20	5.21	6.08	5.89	5.78	6.20	....	6.14	5.75
26	....	5.29	5.24	5.21	5.17	6.10	5.89	5.78	6.20	....	6.10	5.73
27	....	5.26	5.19	5.21	5.50	6.10	5.87	5.78	6.19	....	6.10	5.72
28	....	5.35	5.13	5.27	5.54	6.10	5.90	5.79	6.17	6.03	6.08	5.71
29	5.55		5.07	5.32	5.55	6.08	5.90	5.79	6.15	6.03	6.06	5.72
30	5.55		5.02	5.30	5.55	6.07	5.90	5.79	6.15	6.04	6.06	5.72
31	5.54		4.90		5.56		5.90	5.80		6.04		5.72

G350. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 14, T. 54 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 15 feet, cased to 10. Land-surface datum is 7.48 feet above msl. Highest water level 8.85 above msl, Oct. 14, 1947; lowest 0.61 above msl, June 20-23, 1945. Records available: 1944-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.79	2.51	2.50	1.71	2.15	3.26	3.28	3.20	2.85	3.86	3.26	3.05
2	2.76	2.49	2.47	1.73	2.14	3.36	3.19	3.14	3.03	4.01	3.26	2.96
3	2.73	2.55	2.40	1.74	2.13	3.22	3.12	3.06	3.04	3.92	3.25	2.85
4	2.68	2.58	2.36	1.78	2.10	3.38	3.04	2.99	2.99	3.82	e3.22	2.79
5	2.65	2.54	2.32	1.91	2.13	3.42	2.97	2.94	2.95	3.75	3.17	2.77

G350--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	2.64	2.51	2.33	2.00	2.17	3.32	2.93	2.88	2.93	3.79	3.15	2.80
7	2.59	2.47	2.36	2.13	2.16	3.25	3.03	2.83	2.97	4.01	3.12	2.75
8	2.57	2.45	2.28	2.66	2.13	3.14	3.04	2.81	2.97	3.96	3.09	2.79
9	2.57	2.43	2.37	2.73	2.10	3.02	3.06	2.78	3.01	3.91	3.11	e2.77
10	2.57	2.40	2.41	2.65	2.07	2.93	3.70	2.75	3.01	3.93	3.13	2.75
11	2.56	2.38	e2.37	2.54	2.05	2.83	3.65	2.70	3.02	4.00	3.16	2.71
12	2.54	2.30	2.32	2.45	2.24	2.79	3.57	2.64	3.25	3.98	3.50	2.68
13	2.51	2.27	2.26	2.38	2.98	2.73	3.66	2.57	3.42	4.05	3.75	2.66
14	2.53	2.24	2.21	2.45	3.00	2.86	3.59	2.55	3.54	3.96	3.78	2.63
15	2.50	2.22	2.17	2.51	2.85	2.88	3.68	2.53	3.60	3.66	3.83	2.57
16	2.49	2.16	2.11	2.45	3.04	2.90	3.60	2.51	3.60	3.75	3.80	2.52
17	2.47	2.13	2.05	2.34	2.94	3.01	3.48	2.47	3.76	3.66	3.74	2.49
18	2.46	2.11	2.04	2.25	2.85	3.38	3.40	2.43	4.02	3.60	3.69	2.51
19	2.45	2.07	2.06	2.20	2.75	3.41	3.32	2.37	3.96	3.55	3.65	2.48
20	2.61	2.06	2.10	2.13	2.67	3.33	3.25	2.33	3.85	3.54	3.60	2.43
21	2.63	2.05	2.10	2.10	2.60	3.32	3.20	2.38	3.75	3.53	3.55	2.40
22	2.58	2.02	2.04	2.22	2.55	3.67	3.27	2.48	3.70	3.52	3.48	2.38
23	2.61	2.01	2.01	2.23	2.53	3.71	3.32	2.50	3.63	3.49	3.44	2.37
24	2.61	2.00	1.97	2.25	2.50	3.60	3.25	2.49	3.57	3.47	3.39	2.36
25	2.59	1.99	1.94	2.17	2.48	3.77	3.38	2.52	3.56	3.44	3.33	2.35
26	2.61	1.95	1.86	2.17	2.58	3.88	3.36	2.55	3.54	3.42	3.29	2.34
27	2.61	1.93	1.83	2.19	e3.38	3.78	3.32	2.58	3.56	3.40	3.24	2.32
28	2.58	2.40	1.81	2.20	3.56	3.63	3.46	2.59	3.63	3.38	3.20	2.31
29	2.56		1.79	2.21	3.47	3.51	3.47	2.57	3.58	3.42	3.15	2.33
30	2.53		1.77	2.18	3.43	3.37	3.38	2.59	3.51	3.38	3.10	2.37
31	2.54		1.74		3.31		3.29	2.59		3.30		2.36

e Estimated.

G476. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 55 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 24 feet, cased to 19. Land-surface datum is 12.15 feet above msl. Highest water level 6.55 above msl, Sept. 24, 1948; lowest 0.18 above msl, June 29, 1950. Records available: 1947-54. Affected by tides in Biscayne Bay.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.30	1.28	1.21	0.98	1.64	2.70	2.57	2.62	1.80	1.72	1.67	1.30
2	1.30	1.38	1.19	1.12	1.69	2.80	2.55	2.50	1.79	1.76	1.66	1.23
3	1.30	1.47	1.23	1.20	1.67	2.84	2.52	2.40	1.77	1.63	1.67	1.27
4	1.22	1.48	1.18	1.35	1.61	2.83	2.38	2.30	1.80	1.56	1.70	1.36
5	1.22	1.50	1.24	1.50	1.54	2.82	2.27	2.27	1.78	1.47	1.65	1.47
6	1.30	1.55	1.31	1.53	1.50	2.74	2.20	2.25	1.90	1.55	1.64	1.54
7	1.27	1.43	1.36	1.37	1.55	2.65	2.14	2.24	2.00	1.68	1.66	1.62
8	1.30	1.35	1.37	1.25	1.48	2.60	2.07	2.24	2.05	1.76	1.67	1.68
9	1.40	1.14	1.38	1.21	1.38	2.50	2.10	2.25	2.03	1.87	1.82	1.65
10	1.42	1.13	1.40	1.21	1.35	2.40	2.17	2.29	2.13	....	1.97	1.65
11	1.34	1.11	1.35	1.25	1.36	2.32	2.15	2.33	2.18	....	2.00	1.56
12	1.12	1.07	1.27	1.20	1.45	2.33	2.25	2.33	2.23	....	2.07	1.49
13	1.15	1.17	1.18	1.25	1.58	2.33	2.35	2.30	2.30	....	2.16	1.43
14	1.36	1.23	1.12	1.40	1.55	2.31	2.43	2.28	2.40	....	2.12	1.36
15	1.30	1.22	1.08	1.50	1.54	2.32	2.55	2.22	2.45	....	2.00	1.23
16	1.25	1.17	1.04	1.53	1.56	2.30	2.68	2.14	2.45	....	2.09	1.15
17	1.18	1.02	1.08	1.47	1.65	2.36	2.71	2.07	....	....	2.05	1.08
18	1.20	1.03	1.19	1.32	1.70	2.49	2.73	1.96	....	....	1.90	1.08
19	1.20	1.05	1.30	1.36	1.75	2.55	2.68	1.88	....	....	1.85	.96
20	1.27	1.10	1.33	1.33	1.70	2.58	2.58	1.75	....	....	1.80	.87
21	1.18	1.08	1.20	1.40	1.65	2.60	2.46	1.71	....	....	1.75	.85
22	1.10	1.03	1.12	1.49	1.61	2.64	2.34	1.73	....	....	1.67	.94
23	1.05	1.08	1.18	1.53	1.75	2.70	2.23	1.72	....	....	1.62	.97
24	1.15	1.09	1.13	1.43	1.81	2.67	2.33	1.68	....	....	1.60	.97
25	1.22	.93	1.10	1.42	1.84	2.62	2.57	1.70	....	....	1.55	.99
26	1.36	.92	1.07	1.45	1.90	2.60	2.73	1.75	....	2.03	1.43	1.00
27	1.38	1.00	.98	1.45	2.05	2.59	2.85	1.74	....	2.05	1.40	.97
28	1.25	1.28	.93	1.53	2.37	2.57	2.95	1.80	....	1.97	1.42	.99
29	1.29		.98	1.60	2.45	2.53	2.93	1.74	1.80	1.97	1.39	.98
30	1.25		.99	1.66	2.48	2.57	2.88	1.80	1.79	1.88	1.34	.87
31	1.32		.98		2.53		2.78	1.80		1.78		.86

G476--Continued.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.97	0.97	0.95	0.59	1.22	2.28	2.25	2.33	1.55	1.48	1.38	1.01
2	1.04	.96	.91	.65	1.26	2.50	2.27	2.22	1.55	1.50	1.38	.96
3	1.00	1.05	.87	.76	1.20	2.54	2.15	2.12	1.53	1.40	1.42	.98
4	.88	1.10	.83	.92	1.17	2.53	2.05	2.09	1.60	1.35	1.49	1.05
5	.87	1.15	.82	1.15	1.13	2.49	2.00	2.05	1.59	1.27	1.38	1.09
6	.86	1.13	.94	1.07	1.16	2.43	1.95	2.03	1.64	1.23	1.30	1.20
7	.88	1.02	.97	.95	1.19	2.40	1.88	2.02	1.85	1.27	1.31	1.12
8	.88	.82	.99	.90	1.12	2.32	1.84	2.03	1.80	1.42	1.34	1.32
9	1.09	.77	1.05	.90	1.12	2.24	1.89	2.02	1.74	1.48	1.33	1.27
10	1.05	.80	1.05	.94	1.05	2.14	1.95	2.06	1.82	1.51	1.48	1.22
11	.90	.79	1.02	1.00	1.12	2.03	1.95	2.05	1.84	....	1.60	1.15
12	.84	.75	1.00	.95	1.17	2.05	2.01	2.02	1.87	....	1.65	1.12
13	.76	.78	.92	.95	1.32	2.03	2.08	1.98	1.88	....	1.75	1.08
14	.90	.93	.85	1.06	1.19	2.01	2.15	1.92	2.03	....	1.77	.95
15	1.05	.86	.80	1.20	1.20	2.01	2.30	1.87	2.05	....	1.66	.87
16	.94	.74	.73	1.19	1.27	2.00	2.45	1.77	2.06	....	1.78	.84
17	.81	.66	.71	.96	1.36	2.08	2.45	1.70	....	....	1.78	.83
18	.82	.65	.82	1.02	1.42	2.24	2.40	1.60	....	....	1.68	.75
19	.85	.72	1.00	1.02	1.43	2.27	2.33	1.52	....	....	1.62	.67
20	.91	.76	.92	1.00	1.35	2.29	2.22	1.43	....	....	1.56	.62
21	.78	.75	.80	1.05	1.32	2.30	2.12	1.43	....	....	1.48	.56
22	.76	.71	.83	1.18	1.32	2.35	2.03	1.48	....	....	1.37	.48
23	.74	.71	.85	1.23	1.38	2.41	1.96	1.40	....	....	1.33	.57
24	.81	.70	.78	1.20	1.50	2.37	1.95	1.38	....	....	1.30	.65
25	.87	.68	.78	1.18	1.56	2.33	2.21	1.40	....	....	1.23	.65
26	1.05	.65	.73	1.20	1.62	2.29	2.41	1.43	....	1.77	1.17	.67
27	1.17	.65	.71	1.19	1.63	2.26	2.61	1.44	....	1.74	1.08	.62
28	1.04	.82	.72	1.25	1.96	2.25	2.65	1.50	....	1.65	1.12	.67
29	1.03	.68	1.25	2.13	2.20	2.65	1.43	1.58	1.65	1.06	.57	
30	1.01	.69	1.28	2.13	2.25	2.58	1.48	1.51	1.57	1.03	.55	
31	.97	.64			2.16		2.45	1.57		1.46		.55

G490. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 53 S., R. 41 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 23 feet, cased to 20. Land-surface datum is 5.40 feet above msl. Highest water level 6.27 above msl, Oct. 12, 1947; lowest 0.29 above msl, Mar. 15, 1950. Records available: 1947-54. Affected by tides in Miami Canal.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.37	1.17	1.30	0.85	1.35	2.13	e1.93	1.36	1.69	....	1.69	1.35
2	1.40	1.28	1.19	.91	1.39	2.18	e1.83	1.26	1.70	....	1.67	1.32
3	1.38	1.36	1.18	1.04	1.38	2.17	1.74	1.21	1.62	....	1.69	1.38
4	1.30	1.38	1.12	1.12	1.35	2.23	1.70	1.14	1.60	....	1.70	1.45
5	1.29	1.40	1.15	1.18	1.32	2.34	1.58	1.10	1.50	....	1.67	1.51
6	1.35	1.41	1.26	1.15	1.32	2.24	1.54	1.13	1.49	....	1.65	1.60
7	1.29	1.30	1.26	1.18	1.36	2.09	1.57	1.19	1.58	....	1.60	1.55
8	1.32	1.25	1.18	1.56	1.32	1.97	1.48	1.24	1.65	1.90	1.63	1.59
9	1.41	1.13	1.27	1.52	1.25	1.88	1.56	1.28	1.72	1.96	1.71	1.61
10	1.43	1.09	1.29	1.43	1.22	1.77	1.87	1.34	1.81	2.04	1.81	1.56
11	1.42	1.07	1.27	1.39	1.23	1.74	1.90	1.39	1.86	2.21	1.67	1.52
12	1.26	1.02	1.20	1.32	1.70	1.79	1.90	1.41	1.99	2.27	2.90	1.43
13	1.19	.99	1.12	1.32	2.29	1.78	1.90	1.43	2.20	2.30	2.89	1.44
14	1.34	1.02	1.06	1.44	2.05	1.93	1.93	1.39	2.24	2.23	2.64	1.44
15	1.32	1.01	1.02	1.49	1.77	1.94	2.23	1.34	2.22	2.20	2.48	1.30
16	....	.94	.93	1.50	1.67	1.96	2.19	1.28	2.20	2.08	2.38	1.23
17	....	.91	.94	1.45	1.58	2.14	2.13	1.25	....	1.84	2.26	1.19
18	....	.91	1.02	1.29	1.53	2.43	2.05	1.18	....	1.85	2.07	1.19
19	....	.91	1.13	1.28	1.49	2.44	1.99	1.10	....	1.90	1.98	1.09
20	....	.94	1.18	1.24	1.45	2.31	....	1.05	....	1.97	1.97	1.02
21	1.15	.91	1.09	1.26	1.38	2.25	....	1.05	....	2.02	1.89	.99
22	1.10	.89	1.03	1.33	1.42	2.74	....	1.13	....	2.06	1.79	1.03
23	1.06	.93	1.04	1.34	1.42	2.71	1.62	1.12	....	2.01	1.79	1.04
24	1.09	.99	.98	1.30	1.42	2.48	1.73	1.14	....	1.97	1.76	1.04
25	1.14	.87	.95	1.23	1.44	2.41	1.69	1.27	....	1.93	1.69	1.03

## G490--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.25	0.89	0.92	1.23	1.49	2.30	1.71	1.33	....	1.94	1.59	1.04
27	1.26	.94	.86	1.25	2.66	2.27	1.67	1.37	....	1.95	1.54	1.01
28	1.27	1.39	.84	1.34	2.55	2.22	1.62	1.43	....	1.96	1.55	1.03
29	1.20	....	.86	1.37	2.38	2.09	1.64	1.43	....	1.94	1.52	1.02
30	1.19	....	.86	1.38	2.17	e2.00	1.55	1.46	....	1.94	1.42	.94
31	1.22	....	.85	....	2.08	....	1.48	1.47	....	1.81	....	.93

e Estimated.

## Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.17	0.98	1.05	0.57	1.02	1.85	e1.62	1.00	1.13	....	1.44	1.12
2	1.17	.95	.98	.60	1.04	1.88	e1.55	.94	1.43	....	1.43	1.10
3	1.18	1.05	.92	.68	1.03	1.85	1.41	.91	1.34	....	1.45	1.15
4	1.08	1.12	.83	.77	1.01	1.86	1.32	.87	1.32	....	1.48	1.18
5	1.07	1.13	.81	.86	1.01	1.98	1.29	.85	1.26	....	1.42	1.22
6	1.07	1.07	.91	.83	1.03	1.85	1.37	.88	1.23	....	1.40	1.25
7	1.05	.99	.90	.80	1.08	1.78	1.28	.94	1.35	....	1.36	1.24
8	1.06	.90	.90	1.06	1.02	1.65	1.24	1.01	1.36	1.62	1.32	1.27
9	1.18	.89	.99	1.20	1.02	1.60	1.26	1.03	1.43	1.65	1.31	1.27
10	1.19	.86	1.04	1.18	.99	1.52	1.33	1.08	1.50	1.65	1.39	1.27
11	1.13	.83	1.01	1.10	1.02	1.46	1.64	1.11	1.51	1.76	1.48	1.18
12	.99	.83	.93	1.10	1.05	1.50	1.64	1.12	1.57	1.88	1.53	1.13
13	1.00	.78	.88	1.09	1.49	1.48	1.58	1.09	1.61	1.92	2.35	1.14
14	1.05	.77	.84	1.14	1.69	1.64	1.61	1.04	1.85	1.86	2.23	1.09
15	1.12	.80	.79	1.24	1.53	1.64	1.69	.98	1.83	1.83	2.13	1.03
16	....	.70	.73	1.21	1.38	1.64	1.82	.94	1.79	1.62	2.01	.99
17	....	.66	.69	1.07	1.28	1.63	1.71	.90	....	1.52	1.89	.97
18	....	.68	.75	1.02	1.24	1.94	1.68	.84	....	1.55	1.77	.89
19	....	.68	.84	1.00	1.20	2.01	1.60	.79	....	1.61	1.75	.84
20	....	.70	.89	.95	1.16	1.98	....	.75	....	1.69	1.71	.79
21	.92	.70	.83	.99	1.14	1.89	....	.75	....	1.77	1.61	.77
22	.90	.63	.79	1.04	1.11	1.90	....	.82	....	1.81	1.53	.77
23	.87	.74	.78	1.10	1.13	2.28	1.32	.81	....	1.74	1.51	.79
24	.90	.76	.74	1.02	1.16	2.14	1.29	.86	....	1.70	1.48	.81
25	.96	.71	.72	.99	1.20	2.07	1.36	.95	....	1.64	1.43	.79
26	....	.70	.66	1.01	1.21	1.97	1.36	1.04	....	1.63	1.33	.79
27	....	.70	.65	1.03	1.40	1.92	1.31	1.05	....	1.65	1.24	.76
28	....	.80	.65	1.08	2.07	1.85	1.28	1.10	....	1.62	1.29	.78
29	....	....	.65	1.07	1.97	1.75	1.29	1.11	....	1.68	1.24	.77
30	.99	....	.64	1.08	1.81	e1.72	1.19	1.14	....	1.65	1.18	.71
31	1.00	....	.61	....	1.84	....	1.09	1.18	....	1.50	....	.70

e Estimated.

G518. U. S. Geol. Survey. NE $\frac{1}{4}$  sec. 30, T. 56 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 75 feet, cased to 73. Land-surface datum is 5.65 feet above msl. Highest water level 4.77 above msl, Oct. 7-8, 1953; lowest 0.43 above msl, July 1-2, 1950. Records available: 1947-54. Affected by tides in Goulds Canal.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.96	1.66	....	1.47	1.79	3.61	3.09	2.95	3.57	3.66	2.44	2.15
2	1.99	1.68	....	1.45	1.80	3.40	2.92	2.82	3.23	3.80	2.39	2.13
3	2.49	1.67	....	1.60	1.79	3.26	2.84	2.71	2.87	3.30	2.35	2.10
4	2.48	1.64	....	1.68	1.94	3.11	2.72	2.63	2.75	3.00	2.32	2.08
5	1.98	1.65	....	1.70	1.98	3.29	2.61	2.56	2.95	2.81	2.27	2.08
6	1.88	1.66	....	1.81	1.94	3.12	2.64	2.50	2.95	2.90	2.22	2.10
7	1.91	1.72	....	1.77	1.84	2.97	3.10	2.46	2.85	2.88	2.18	2.08
8	1.91	1.79	....	2.12	1.77	2.83	3.38	2.44	2.79	2.85	2.16	2.05
9	1.91	1.79	....	2.06	1.70	2.72	3.28	2.53	2.74	2.85	2.17	2.03
10	2.01	1.74	....	1.86	1.64	2.64	3.09	2.60	2.69	2.86	2.26	2.01
11	2.23	1.68	....	1.72	1.59	2.56	2.94	2.75	2.59	2.77	2.28	2.00
12	2.24	1.62	....	1.61	....	2.50	2.78	2.78	2.85	2.85	2.46	2.00
13	1.77	1.59	....	1.64	....	2.45	2.74	2.79	3.26	2.89	2.64	1.99
14	1.74	1.55	....	1.63	....	3.54	3.93	2.78	3.42	2.81	3.42	1.98
15	1.75	1.51	....	1.64	e4.69	3.54	3.93	2.75	3.51	2.72	3.24	1.97
16	1.86	1.48	....	1.82	e4.66	3.80	3.32	2.73	3.23	2.60	2.80	1.96
17	1.87	1.48	....	1.57	e4.18	3.98	3.02	2.93	3.04	2.48	2.63	1.95
18	1.85	1.49	....	1.52	3.55	4.35	2.85	2.93	3.00	2.44	2.51	1.93
19	1.85	1.45	....	1.54	2.98	....	2.74	2.82	3.11	2.40	2.39	1.91
20	1.85	1.43	....	1.55	2.70	....	2.66	2.86	2.84	2.41	2.31	1.90

G518--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	1.83	1.40	....	1.56	2.49	....	2.73	2.87	2.91	4.10	2.23	1.89
22	1.80	1.40	....	1.92	3.01	....	2.66	3.87	2.90	4.47	2.31	1.88
23	1.78	1.38	....	2.44	2.89	....	2.69	3.10	2.73	3.84	2.30	1.86
24	1.75	1.39	....	2.15	2.51	....	3.63	3.10	2.69	3.17	2.29	1.84
25	1.73	1.42	....	1.96	2.34	....	3.08	3.10	2.67	2.87	e2.29	1.83
26	1.72	1.39	....	1.89	2.25	....	2.87	2.60	3.43	2.75	2.28	1.81
27	1.70	1.38	....	1.81	4.82	....	3.44	2.49	2.96	2.72	2.27	1.79
28	1.71	....	....	1.79	4.47	3.46	3.40	2.42	3.65	2.76	2.25	1.77
29	1.69	....	1.56	1.75	4.03	3.45	3.60	2.70	3.63	2.80	2.22	1.75
30	1.67	....	1.53	1.75	4.25	3.16	3.53	2.65	3.08	2.72	2.18	1.75
31	1.66	....	1.51	....	3.86	....	3.10	3.10	....	2.56	....	1.74

e Estimated.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.90	1.62	....	1.43	1.73	3.34	2.88	2.81	2.81	2.87	2.38	2.13
2	1.96	1.63	....	1.42	1.75	3.20	2.80	2.70	2.87	3.30	2.34	2.10
3	1.98	1.64	....	1.42	1.73	3.06	2.70	2.62	2.70	3.00	2.30	2.08
4	1.98	1.61	....	1.60	1.74	2.96	2.60	2.55	2.62	2.81	2.26	2.07
5	1.73	1.62	....	1.64	1.94	3.00	2.54	2.48	2.56	2.70	2.20	2.07
6	1.66	1.62	....	1.70	1.84	2.96	2.50	2.44	2.80	2.70	2.15	2.08
7	1.88	1.63	....	1.68	1.77	2.83	2.64	2.43	2.76	2.61	2.11	2.05
8	1.90	1.72	....	1.68	1.70	2.72	3.10	2.41	2.69	2.76	2.08	2.03
9	1.90	1.74	....	1.85	1.64	2.64	2.75	2.41	2.61	2.76	2.10	2.01
10	1.91	1.68	....	1.70	1.59	2.56	2.66	2.48	2.58	2.74	2.16	2.00
11	2.00	1.62	....	1.57	1.55	2.50	2.73	2.60	2.52	2.70	2.17	2.00
12	1.77	1.58	....	1.56	1.55	2.44	2.69	2.75	2.55	2.68	2.25	1.99
13	1.64	1.55	....	1.61	....	2.38	2.63	2.72	2.75	2.80	2.36	1.98
14	1.60	1.50	....	1.58	....	2.39	2.63	2.72	2.90	2.72	2.47	1.97
15	1.58	1.46	....	1.59	e4.66	3.03	3.32	2.70	3.13	2.61	2.80	1.96
16	1.75	1.44	....	1.56	e4.18	3.03	3.02	2.69	2.90	2.48	2.62	1.95
17	1.83	1.45	....	1.52	3.55	3.50	2.85	2.70	2.78	2.41	2.48	1.93
18	1.81	1.44	....	1.50	2.98	3.98	2.71	2.82	2.80	2.37	2.39	1.91
19	1.81	1.40	....	1.50	2.70	....	2.64	2.72	2.84	2.36	2.30	1.90
20	1.81	1.39	....	1.50	2.48	....	2.57	2.70	2.67	2.38	2.22	1.89
21	1.79	1.37	....	1.51	2.39	....	2.56	2.77	2.61	2.38	2.14	1.88
22	1.77	1.35	....	1.56	2.38	....	2.53	2.85	2.73	3.84	2.10	1.86
23	1.73	1.36	....	1.92	2.51	....	2.57	2.74	2.67	3.16	2.20	1.84
24	1.71	1.36	....	1.96	2.34	....	2.51	2.60	2.59	2.83	2.23	1.83
25	1.69	1.39	....	1.89	2.23	....	2.87	2.60	2.60	2.68	e2.25	1.81
26	1.68	1.37	....	1.80	2.17	....	2.76	2.49	2.63	2.70	2.25	1.79
27	1.66	1.36	....	1.77	2.25	....	2.75	2.39	2.79	2.63	2.24	1.77
28	1.67	....	....	1.73	4.03	3.27	3.07	2.33	2.79	2.54	2.22	1.75
29	1.65	....	1.53	1.70	3.73	3.13	3.22	2.33	3.08	2.70	2.17	1.75
30	1.63	....	1.50	1.68	3.86	2.97	3.09	2.53	2.88	2.56	2.14	1.74
31	1.64	....	1.47	....	3.52	....	2.94	2.52	....	2.44	....	1.73

e Estimated.

G551. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 36, T. 54 S., R. 39 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 24 to 18 inches, depth 80 feet, cased to 71, slotted 29-71. Land-surface datum is 6.04 feet above msl. Highest water level 8.77 above msl, Oct. 5, 1948; lowest 3.08 above msl, June 8, 1951. Records available: 1947-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.16	5.39	6.10	5.00	5.29	7.39	7.28	7.42	6.63	7.35	5.80	5.38
2	6.13	5.36	5.92	4.97	5.25	7.24	7.10	7.25	6.96	7.32	5.85	5.35
3	6.10	5.34	5.83	4.94	5.20	7.14	6.96	7.05	6.75	7.17	5.75	5.31
4	6.08	5.33	5.75	4.92	5.16	7.27	6.92	6.85	6.65	7.04	5.70	5.28
5	6.05	5.30	5.68	5.05	5.13	7.17	7.36	6.70	6.59	6.95	5.65	5.25
6	6.02	5.28	5.63	5.25	5.09	7.12	6.85	6.57	6.65	7.17	5.60	5.23
7	5.97	5.26	5.75	5.52	5.05	7.04	7.65	6.64	6.59	7.06	5.56	5.25
8	5.94	5.35	5.62	6.05	5.00	6.92	7.02	6.52	6.48	7.08	5.52	5.23
9	5.91	5.30	6.00	5.90	4.95	6.85	6.93	6.46	6.50	7.31	5.47	5.32
10	5.90	5.26	5.90	5.79	4.90	6.75	7.37	6.45	6.42	7.06	5.48	5.30
11	6.08	5.24	5.80	5.68	4.85	6.61	7.18	6.40	6.35	6.96	5.43	5.28
12	5.99	5.21	5.73	5.65	4.92	6.42	7.59	6.35	6.42	7.16	5.40	5.16
13	5.93	5.18	5.67	5.77	5.92	6.33	7.44	6.27	7.06	7.00	6.35	5.12
14	5.89	5.15	5.60	5.63	5.82	7.06	7.83	6.18	6.80	7.10	6.25	5.25
15	5.87	5.12	5.53	5.54	7.24	6.92	7.80	6.13	6.90	6.90	6.42	5.12

## G551--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	5.84	5.10	5.47	5.45	7.16	7.34	7.65	6.10	6.78	6.80	6.47	5.09
17	5.80	5.08	5.42	5.37	6.97	7.14	7.53	6.17	7.31	6.72	6.38	5.07
18	5.77	5.06	5.37	5.31	6.65	7.54	7.40	6.04	7.14	6.65	6.31	5.08
19	5.75	5.05	5.33	5.26	6.35	7.32	7.31	5.95	7.03	6.58	6.24	5.25
20	5.73	5.02	5.58	5.28	6.22	7.60	7.15	5.91	6.94	6.52	6.32	5.11
21	5.70	5.15	5.52	5.25	6.10	7.39	7.52	5.88	6.86	6.45	6.16	5.10
22	5.68	5.21	5.45	5.38	6.28	7.44	7.50	6.30	6.81	6.40	6.11	5.03
23	5.65	5.13	5.39	5.49	6.09	7.34	7.08	6.30	6.75	6.37	6.00	5.05
24	5.61	5.08	5.33	5.51	5.95	7.90	7.70	6.30	6.70	6.33	5.95	5.00
25	5.59	5.05	5.29	5.45	5.84	7.93	7.40	6.50	6.75	6.29	5.89	4.93
26	5.57	5.01	5.25	5.54	5.79	7.78	7.25	6.25	6.85	6.27	5.82	4.90
27	5.53	4.97	5.21	5.45	7.65	7.71	7.20	6.15	6.80	5.95	5.77	4.88
28	5.49	6.07		5.47	7.63	7.74	7.95	6.08	6.75	5.86	5.72	4.83
29	5.47		5.11	5.37	7.37	7.58	7.82	6.05	6.65	5.82	5.50	4.80
30	5.44		5.07	5.33	7.50	7.45	7.72	6.18	6.66	5.80	5.42	4.77
31	5.41		5.04		7.29	7.29	7.60	6.22		5.86		4.75

G553. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 55 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 24 to 18 inches, depth 91 feet, cased to 79, slotted 36-79. Land-surface datum is 12.11 feet above msl. Highest water level 11.06 above msl, Oct. 5, 1948; lowest 2.00 above msl, July 2, 1952. Records available: 1947-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.26	4.19	4.10	4.05	4.28	7.67	8.02	8.13	6.50	6.48	5.33	4.94
2	5.22	4.17	4.19	4.01	4.23	7.77	7.90	8.04	6.83	6.55	5.28	4.90
3	5.18	4.13	4.26	3.97	4.18	7.67	7.80	7.94	6.86	6.54	5.24	4.85
4	5.15	4.10	4.30	3.93	4.15	7.59	7.70	7.84	6.77	6.55	5.17	4.80
5	5.11	4.07	4.33	3.90	4.11	7.56	7.60	7.75	6.72	6.49	5.12	4.76
6	5.07	4.03	4.35	4.09	4.06	7.47	7.52	7.64	6.69	6.47	5.07	4.73
7	5.03	4.01	4.40	4.15	4.01	7.41	7.46	7.54	6.63	6.50	5.01	4.67
8	4.98	3.97	4.39	4.20	3.96	7.32	7.40	7.47	6.57	6.45	4.95	4.63
9	4.95	3.93	4.46	4.29	3.91	7.29	7.34	7.40	6.50	6.42	4.89	4.59
10	4.91	3.91	4.50	4.33	3.87	7.15	7.30	7.33	6.42	6.46	4.85	4.56
11	4.93	3.88	4.52	4.35	3.83	7.07	7.50	7.25	6.34	6.38	4.80	4.52
12	4.88	3.85	4.52	4.37	3.89	6.97	7.57	7.19	6.37	6.34	4.93	4.50
13	4.86	3.82	4.53	4.38	4.25	6.87	7.62	7.10	6.43	6.38	4.94	4.47
14	4.82	3.80	4.54	4.37	4.35	7.00	7.65	7.00	6.45	6.30	4.97	4.42
15	4.80	3.76	4.50	4.33	4.72	6.97	7.75	6.90	6.48	6.27	5.14	4.40
16	4.76	3.74	4.46	4.30	5.10	7.04	7.81	6.81	6.51	6.21	5.22	4.35
17	4.71	3.72	4.43	4.24	5.39	7.13	7.77	6.75	6.44	6.14	5.27	4.33
18	4.68	3.68	4.41	4.20	5.52	7.47	7.70	6.65	6.66	6.08	5.30	4.31
19	4.65	3.65	4.38	4.16	5.56	7.57	7.63	6.55	6.70	6.04	5.31	4.28
20	4.61	3.63	4.49	4.20	5.58	7.55	7.57	6.45	6.76	5.98	5.32	4.25
21	4.59	3.61	4.47	4.25	5.55	7.50	7.52	6.38	6.68	5.92	5.30	4.21
22	4.55	3.60	4.43	4.27	5.60	7.48	7.48	6.35	6.63	5.88	5.30	4.17
23	4.50	3.58	4.40	4.38	5.57	7.72	7.45	6.30	6.58	5.82	5.27	4.14
24	4.47	3.55	4.35	4.42	5.52	8.20	7.68	6.25	6.53	5.75	5.22	4.11
25	4.43	3.52	4.32	4.43	5.47	8.24	8.21	6.23	6.47	5.71	5.18	4.08
26	4.39	3.50	4.29	4.44	5.43	7.98	8.62	6.16	6.52	5.64	5.16	4.06
27	4.36	3.48	4.25	4.41	7.33	8.43	8.40	6.09	6.47	5.60	5.13	4.03
28	4.33	3.88	4.22	4.39	7.41	8.34	8.32	6.02	6.53	5.56	5.07	4.00
29	4.30		4.18	4.35	7.39	8.27	8.58	6.13	6.47	5.52	5.02	3.98
30	4.26		4.13	4.32	7.42	8.13	8.34	6.17	6.43	5.46	4.98	3.96
31	4.23		4.10		7.40		8.24	6.31		5.40		3.94

G580. U. S. Geol. Survey. Northwest corner of Ludlum Rd. and Killian Dr. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 11, T. 55 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 2 $\frac{1}{2}$  inches, depth 100 feet, cased to 95. Land-surface datum is 9.20 feet above msl. Highest water level 7.38 above msl, Oct. 9, 1953; lowest 1.10 above msl, July 1-2, 1952. Records available: 1949-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.82	2.06	1.87	2.15	2.30	5.91	4.96	5.26	3.68	3.66	2.94	2.51
2	2.77	2.02	1.99	2.12	2.30	5.81	4.82	5.10	3.92	3.76	2.90	2.45
3	2.75	2.01	2.08	2.12	2.29	5.65	4.69	4.96	3.97	3.78	2.82	2.41
4	2.67	2.00	2.12	2.11	2.28	5.50	4.56	4.73	3.98	3.78	2.77	2.38
5	2.65	1.99	2.12	2.14	2.28	5.33	4.43	4.62	3.94	3.73	2.76	2.36

G580--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	2.61	1.98	2.16	2.23	2.28	5.16	4.30	4.47	3.92	3.69	2.70	2.35
7	2.58	1.96	2.23	2.23	2.26	4.98	4.20	4.34	3.90	3.68	2.67	2.34
8	2.54	1.95	2.24	2.23	2.25	....	4.14	4.24	3.85	3.66	2.64	2.33
9	2.52	1.94	2.25	2.24	2.22	....	4.36	4.14	3.79	3.65	2.62	2.32
10	2.51	1.93	2.25	2.24	2.19	....	4.37	4.04	3.74	3.63	2.59	2.31
11	2.50	1.91	2.26	2.24	2.16	....	4.59	3.94	3.70	3.62	2.58	2.30
12	2.49	1.88	2.26	2.24	2.26	....	4.61	3.87	3.67	3.60	2.70	2.28
13	2.45	1.86	2.26	2.24	2.27	....	4.58	3.78	4.03	3.60	2.82	2.25
14	2.43	1.83	2.26	2.24	3.00	....	5.09	3.70	4.19	3.60	2.86	2.20
15	2.41	1.81	2.26	2.24	3.45	....	5.10	3.64	4.18	3.57	2.94	2.18
16	2.39	1.79	2.26	2.24	3.84	....	5.05	3.58	4.18	3.52	3.01	2.14
17	2.35	1.76	2.26	2.23	4.05	....	4.94	3.53	4.15	3.48	3.05	2.10
18	2.32	1.73	2.25	2.23	4.07	....	4.81	3.46	4.25	3.40	3.06	2.08
19	2.30	1.71	2.25	2.23	4.00	....	4.68	3.39	4.26	3.35	3.06	2.05
20	2.28	1.70	2.26	2.23	3.89	....	4.57	3.33	4.26	3.29	3.03	2.02
21	2.26	1.68	2.26	e2.25	3.77	....	4.51	3.31	4.19	3.27	2.98	1.97
22	2.23	1.66	2.26	e2.28	3.70	....	4.46	3.31	4.14	3.25	2.93	1.94
23	2.21	1.65	2.26	e2.33	3.62	....	4.40	3.27	4.07	3.22	2.89	1.90
24	2.18	1.65	2.26	e2.37	3.56	....	4.50	3.24	3.99	3.19	2.86	1.87
25	2.17	1.65	2.26	e2.40	3.46	....	5.54	3.21	3.93	3.16	2.81	1.85
26	2.16	1.65	2.26	e2.40	4.46	....	5.78	3.18	3.67	3.15	2.76	1.83
27	2.14	1.65	2.25	2.38	5.08	5.19	5.85	3.15	3.80	3.13	2.70	1.80
28	2.12	1.71	2.24	2.35	5.16	5.22	5.84	3.12	3.75	3.10	2.66	1.78
29	2.11		2.23	2.32	5.22	5.24	5.73	3.30	3.73	3.08	2.62	1.74
30	2.10		2.20	2.31	5.21	5.18	5.59	3.36	3.68	3.06	2.55	1.71
31	2.08		2.18		5.86		5.43	3.45		3.01		1.69

e Estimated.

G594. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 32, T. 52 S., R. 39 E. On Dade-Broward levee. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 14. Land-surface datum is 6.20 feet above msl. Highest water level 7.90 above msl, Oct. 29, 1953; lowest 2.64 above msl, June 5, 1951. Records available: 1949-53. Measurement discontinued.

G595. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 34, T. 54 S., R. 40 E. Drilled observation well in limestone of Biscayne aquifer, diameter 6 inches, depth 14 feet, cased to 11. Land-surface datum is 8.80 feet above msl. Highest water level 9.12 above msl, Oct. 5, 1952; lowest 1.67 above msl, June 21, 1952. Records available: 1949-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.88	3.06	3.59	2.33	3.27	6.45	6.32	5.75	4.26	4.98	4.35	4.41
2	4.84	3.01	3.80	2.22	3.20	6.28	6.21	5.66	4.54	5.18	4.31	4.37
3	4.81	3.03	3.88	2.15	3.13	6.17	6.10	5.19	4.55	5.12	4.26	4.35
4	4.77	3.02	3.94	2.45	3.07	6.13	5.97	4.93	4.58	5.05	4.21	4.32
5	4.74	2.99	3.97	2.99	3.01	6.06	5.86	4.77	4.53	4.96	4.17	4.29
6	4.71	2.95	4.00	3.17	2.96	5.97	5.55	4.50	4.52	4.92	4.12	4.26
7	4.22	2.92	4.03	3.30	2.91	5.91	5.87	4.32	4.50	5.18	4.08	4.23
8	3.81	3.01	4.05	3.83	2.86	5.80	5.88	4.18	4.43	5.15	4.05	4.20
9	4.19	3.08	4.15	3.81	2.81	5.72	5.80	4.07	4.38	5.12	4.05	4.17
10	4.24	3.09	4.21	3.77	2.76	5.62	6.19	4.02	4.41	5.10	4.05	4.13
11	4.04	3.12	4.23	3.72	2.24	5.46	6.62	4.12	4.36	5.04	4.06	4.11
12	3.94	3.01	4.24	3.67	2.11	5.28	7.47	4.14	5.12	5.02	4.50	4.09
13	3.86	2.95	4.24	3.63	3.24	5.09	6.98	4.08	5.44	5.15	4.66	4.07
14	3.79	2.91	4.00	3.58	3.50	5.33	6.82	4.03	5.28	5.10	4.68	4.05
15	3.71	2.87	3.44	3.53	4.39	5.39	6.95	3.99	5.15	5.00	4.83	4.03
16	3.67	2.59	3.25	3.48	4.46	5.56	6.71	3.97	4.90	4.92	4.88	4.00
17	3.61	2.45	3.12	3.43	4.49	5.86	6.56	4.15	4.92	4.84	4.85	3.98
18	3.60	2.39	3.03	3.38	4.75	6.29	6.42	3.60	5.14	4.70	4.81	3.99
19	3.55	2.36	2.94	3.30	4.83	6.41	6.28	3.38	5.18	4.53	4.80	3.98
20	3.50	2.31	3.00	3.23	4.85	6.53	6.13	3.24	5.12	4.52	4.78	3.96
21	3.69	2.27	2.94	3.21	4.82	6.34	5.81	3.22	5.05	4.46	4.75	3.94
22	3.54	2.25	3.12	3.30	4.81	6.26	5.50	3.71	5.06	4.44	4.72	3.93
23	3.45	2.45	3.15	3.39	4.84	6.35	5.44	3.91	4.96	4.30	4.69	3.90
24	3.38	2.46	3.13	3.41	4.78	6.57	5.91	4.05	4.88	4.22	4.65	3.89
25	3.32	2.45	3.09	3.39	4.72	6.57	5.68	4.29	4.82	3.86	4.61	3.87
26	3.12	2.43	3.07	3.50	4.68	6.50	5.53	4.23	4.79	3.64	4.58	3.85
27	3.05	2.42	2.98	3.47	6.47	6.79	5.36	4.16	4.74	4.31	4.55	3.83
28	3.33	2.98	2.85	3.35	6.52	6.83	5.72	4.10	4.71	4.48	4.51	3.81
29	3.24		2.73	3.28	6.34	6.61	5.91	4.06	4.67	4.50	4.48	3.80
30	3.18		2.57	3.35	6.41	6.46	5.85	4.10	4.65	4.45	4.44	3.78
31	3.12		2.43		6.24		5.82	4.08		4.40		3.76



G596. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, T. 55 S., R. 38 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 13 feet, cased to 11. Land-surface datum is 7.70 feet above msl. Highest water level 8.01 above msl, Oct. 25-26, 1949; lowest 3.16 above msl, May 28, 1952. Records available: 1949-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.60	7.15	7.16	6.37	6.48	7.06	7.19	7.38	7.68	7.92	7.83	7.77
2	7.57	7.13	7.05	6.34	6.45	6.98	7.17	7.35	7.76	7.97	7.82	7.76
3	7.56	7.11	7.00	6.68	6.40	6.95	7.14	7.33	7.73	7.98	7.81	7.73
4	7.55	7.10	6.95	6.50	6.35	7.28	7.12	7.31	7.72	7.98	7.80	7.71
5	7.54	7.07	6.93	6.72	6.31	7.09	7.70	7.29	7.73	7.96	7.78	7.70
6	7.53	7.06	7.01	6.60	6.25	7.04	7.32	7.30	7.74	7.96	7.77	7.70
7	7.52	7.05	6.93	6.65	6.20	7.00	7.24	7.30	7.75	7.96	7.74	7.70
8	7.48	7.28	6.90	6.77	6.15	6.95	7.35	7.30	7.72	7.96	7.74	7.70
9	7.43	7.04	7.15	6.65	6.10	6.90	7.23	7.30	7.70	7.98	7.73	7.70
10	7.40	7.02	6.98	6.55	6.04	6.88	7.20	7.30	7.69	7.99	7.73	7.69
11	7.52	6.98	6.91	6.50	5.98	6.85	7.60	7.30	7.66	7.99	7.73	7.67
12	7.50	6.97	6.89	6.47	6.05	6.84	7.50	7.45	7.80	7.97	7.76	7.66
13	7.48	6.95	6.87	6.58	6.83	6.79	7.35	7.30	7.91	7.97	7.76	7.65
14	7.45	6.92	6.83	6.55	6.47	6.96	7.52	7.30	7.88	7.97	7.79	7.65
15	7.44	6.91	6.80	6.51	7.30	6.97	7.60	7.30	7.87	7.97	7.82	7.63
16	7.42	6.89	6.78	6.45	7.25	6.88	7.47	7.30	7.86	7.95	7.83	7.62
17	7.40	6.87	6.73	6.42	e6.98	7.04	7.38	7.30	7.82	7.92	7.83	7.61
18	7.38	6.86	6.71	6.38	6.80	7.23	7.35	7.30	7.87	7.92	7.83	7.61
19	7.36	6.82	6.70	6.34	6.70	7.38	7.41	7.29	7.88	7.91	7.83	7.60
20	7.35	6.76	6.85	6.30	6.61	7.23	7.30	7.26	....	7.89	7.87	7.58
21	7.34	6.75	6.80	6.30	6.56	7.17	7.30	7.34	....	7.88	7.85	7.56
22	7.32	6.75	6.76	6.28	6.62	7.36	7.26	7.37	....	7.87	7.83	7.55
23	7.30	6.73	6.71	6.96	6.70	7.45	7.22	7.32	....	7.85	7.82	7.54
24	7.27	6.73	6.67	6.69	e6.57	7.58	7.24	7.49	....	7.83	7.80	7.53
25	7.25	6.71	6.61	6.56	e6.50	7.52	7.55	7.40	....	7.82	7.79	7.52
26	7.22	6.70	6.57	6.50	6.75	7.41	7.37	7.34	....	7.79	7.80	7.49
27	7.20	6.68	6.54	6.88	7.17	7.33	7.32	7.30	....	7.80	7.80	7.46
28	7.20	7.53	6.51	6.68	7.10	7.30	7.37	7.30	....	7.85	7.81	7.43
29	7.19		6.46	6.60	7.01	7.27	7.60	7.60	7.95	7.85	7.80	7.42
30	7.17		6.43	6.54	7.18	7.23	7.45	7.49	7.93	7.85	7.78	7.42
31	7.15		6.40		7.00		7.40	7.52		7.84		7.42

e Estimated.

G612. U. S. Geol. Survey. Tallahassee Rd., 0.5 mile south of North Canal. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 23, T. 57 S., R. 39 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 19 feet, cased to 17. Land-surface datum is 3.90 feet above msl. Highest water level 3.40 above msl, Oct. 8, 1953; lowest 0.20 below msl, May 15, 1950. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.28	1.00	1.30	0.54	1.16	2.95	2.58	2.73	2.95	2.90	1.46	0.90
2	1.25	1.14	1.11	.52	1.07	2.85	2.55	2.56	2.95	3.03	1.32	.90
3	1.28	1.08	1.03	.97	.96	2.75	2.47	2.49	2.72	2.75	1.20	.93
4	1.20	1.07	.88	.90	1.73	2.67	2.40	2.38	2.62	2.61	1.25	.90
5	1.17	1.03	.70	.85	1.20	2.79	2.32	2.28	2.53	2.50	1.18	.90
6	1.20	1.02	.98	.97	1.03	2.58	2.23	2.18	2.50	2.72	1.10	.89
7	1.13	1.10	.73	.86	.90	2.53	2.48	2.32	2.50	2.62	1.12	.92
8	1.12	1.35	.64	1.67	.82	2.46	2.43	2.20	2.48	2.50	1.03	.88
9	1.15	1.16	1.47	.95	.75	2.40	2.39	2.15	2.39	2.63	.98	.89
10	1.25	1.09	1.15	.66	.70	2.32	2.35	2.50	2.35	2.49	1.12	.87
11	1.47	1.02	.97	.47	.68	2.28	2.40	2.35	2.31	2.46	.93	.86
12	1.39	.98	.88	.65	1.62	2.21	2.51	2.39	2.51	2.67	.87	.82
13	1.28	.95	1.10	.58	2.40	2.17	2.43	2.33	2.77	2.54	1.05	.79
14	1.25	.91	.74	.55	1.85	2.35	2.83	2.32	2.67	2.47	1.57	.93
15	1.21	.88	.63	.53	1.98	2.56	2.90	2.30	2.64	2.36	1.20	.89
16	1.37	.85	.53	.46	2.91	2.65	2.68	2.25	2.59	2.27	1.41	.85
17	1.23	.86	.54	.45	2.80	2.55	2.59	2.19	2.52	2.16	1.00	.86
18	1.18	.82	.55	.49	2.48	2.97	2.71	2.19	2.72	2.13	1.20	.84
19	1.17	.81	.74	.55	2.27	2.78	2.50	2.13	2.55	2.17	1.15	.83
20	1.15	.80	1.50	.62	2.15	2.68	2.43	2.07	2.63	2.20	1.23	.79
21	1.13	.76	1.00	.65	2.10	2.85	2.41	2.05	2.40	2.20	1.10	.86
22	1.08	.74	.85	.66	2.49	2.98	2.35	2.56	2.61	2.40	1.07	.86
23	1.07	.74	.96	2.37	2.30	2.89	2.40	2.31	2.70	2.31	1.22	.87
24	1.05	.73	.79	1.73	2.22	3.07	2.80	2.20	2.44	2.08	1.13	.87
25	1.08	.72	.77	1.55	2.16	2.99	2.63	2.57	2.41	1.92	1.06	.86

G612--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.10	0.72	0.73	1.43	2.60	2.90	2.67	2.31	2.55	1.76	1.00	0.86
27	1.11	.70	.69	1.33	3.18	2.84	2.85	2.81	2.45	1.65	.97	.85
28	1.02	1.85	.62	1.25	3.07	2.90	3.08	2.66	2.87	1.80	.96	.85
29	1.02		.55	1.17	2.97	2.74	3.08	2.87	2.47	1.68	.93	.82
30	1.01		.52	1.37	3.14	2.66	2.97	2.66	2.40	1.63	.93	.80
31	1.02		.63		3.03		2.87	2.91		1.50		.81

G613. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, T. 58 S., R. 38 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 21 feet, cased to 18. Land-surface datum is 5.0 feet above msl. Highest water level 5.82 above msl, May 30, 1954; lowest 0.24 below msl, May 16, 1950. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.20	1.69	2.39	1.62	2.38	4.50	3.70	3.90	4.32	3.80	3.03	2.29
2	2.18	1.73	2.40	1.59	2.30	4.37	3.59	3.77	4.18	4.15	2.98	2.27
3	2.17	1.77	2.32	1.57	2.21	4.23	3.50	3.63	4.00	4.13	2.94	2.25
4	2.19	1.70	2.25	1.79	2.17	4.11	3.41	3.52	3.87	4.04	2.90	2.22
5	2.19	1.67	2.19	1.85	2.12	4.61	3.32	3.41	3.75	3.93	2.86	2.20
6	2.18	1.65	2.16	1.91	2.02	4.21	3.24	3.35	3.65	3.98	2.82	e2.17
7	2.14	1.64	2.15	1.88	1.93	4.03	3.20	3.32	3.55	4.30	3.79	2.14
8	2.11	1.70	2.10	1.98	1.86	3.86	3.18	3.31	3.47	4.25	2.74	2.11
9	2.10	1.72	2.51	2.09	1.78	3.70	3.20	3.30	3.39	4.16	2.70	2.10
10	2.10	1.70	2.57	2.12	1.70	3.57	3.15	3.32	3.30	4.07	2.67	2.07
11	2.18	1.65	2.54	2.08	1.64	3.47	3.17	3.33	3.23	3.98	2.65	2.05
12	2.19	1.63	2.46	2.00	2.30	3.39	3.17	3.35	3.37	3.87	2.64	2.03
13	2.19	1.60	2.40	1.95	2.84	3.27	3.15	3.25	3.90	3.82	2.70	2.00
14	2.16	1.55	2.32	1.89	2.87	3.43	3.15	3.20	3.97	3.75	2.90	2.15
15	2.14	1.52	2.22	1.82	3.19	3.61	3.25	3.15	3.90	3.65	2.90	2.09
16	2.14	1.49	2.14	1.75	3.38	3.90	3.32	3.11	3.78	3.56	2.85	2.05
17	2.14	1.48	2.06	1.68	3.58	4.20	3.27	3.05	3.65	3.48	2.80	2.03
18	2.10	1.47	2.00	1.63	3.49	4.50	3.21	3.00	3.57	3.42	2.74	2.06
19	2.09	1.45	1.95	1.58	3.30	4.36	3.16	2.94	3.54	3.35	2.68	2.02
20	2.08	1.43	2.34	1.55	3.17	4.21	3.12	2.90	3.55	3.27	2.63	1.99
21	2.05	1.40	2.36	1.53	3.06	4.42	3.09	2.85	3.52	3.24	2.60	1.97
22	2.04	1.35	2.32	1.55	2.98	4.27	3.04	2.89	3.48	3.19	2.57	1.93
23	2.00	1.30	2.23	2.17	4.30	4.18	3.00	2.90	3.44	3.15	2.56	1.92
24	1.96	1.28	2.15	2.34	4.05	4.33	2.98	2.95	3.42	3.11	2.55	1.89
25	1.94	1.25	2.07	2.38	3.76	4.35	3.59	3.00	3.40	3.07	2.52	1.87
26	1.90	1.21	1.99	2.37	3.82	4.22	3.61	3.02	3.44	3.05	2.50	1.86
27	1.88	1.18	1.95	2.32	5.12	4.17	3.56	3.47	3.44	3.07	2.46	1.85
28	1.80	2.19	1.89	2.41	4.62	4.12	4.53	3.51	3.53	3.15	2.43	1.82
29	1.77		1.80	2.43	4.42	3.99	4.26	4.00	3.61	3.17	2.40	1.79
30	1.75		1.73	2.43	5.82	3.84	4.15	4.15	3.67	3.15	2.35	1.77
31	1.72		1.67		4.75		4.06	4.03		3.10		1.75

e Estimated.

G614. U. S. Geol. Survey. Southeast corner of Newton Rd. and Silver Palm Dr. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 21, T. 56 S., R. 39 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 18. Land-surface datum is 11.10 feet above msl. Highest water level 8.83 above msl, Oct. 8, 1953; lowest 1.30 above msl, May 22, 1950. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.17	3.55	3.85	3.60	4.12	7.30	6.81	6.92	5.31	5.83	5.24	4.28
2	4.15	3.52	4.14	3.54	4.12	7.42	6.65	6.77	5.56	6.10	5.19	4.25
3	4.13	3.50	4.22	3.50	4.12	7.27	6.50	6.63	5.72	6.21	5.13	4.20
4	4.11	3.49	4.26	3.46	4.08	7.12	6.35	6.48	5.77	6.25	5.08	4.17
5	4.10	3.46	4.28	3.43	4.06	6.98	6.20	6.35	5.78	6.19	5.02	4.14
6	4.09	3.45	4.28	3.40	4.02	6.87	6.14	6.23	5.85	6.16	4.95	4.11
7	4.08	3.43	4.28	3.38	3.97	....	5.90	6.16	5.86	6.18	4.90	4.07
8	4.07	3.40	4.25	3.37	3.90	....	e5.85	6.05	5.83	6.13	4.84	4.05
9	4.08	3.39	4.24	3.45	3.85	....	e5.77	5.98	5.75	6.07	4.78	4.01
10	4.09	3.36	4.28	3.52	3.77	....	e6.03	5.97	5.66	6.02	4.72	3.98
11	4.09	3.34	4.32	3.55	3.70	....	e6.07	5.92	5.57	5.97	4.67	3.95
12	4.08	3.32	4.34	3.57	3.64	....	e6.10	5.85	5.50	5.90	4.61	3.92
13	4.07	3.30	4.35	3.57	3.75	....	e6.13	5.76	5.45	5.87	4.57	3.90
14	4.05	3.28	4.34	3.57	3.95	....	6.25	5.68	5.46	5.85	4.56	3.87
15	4.00	3.26	4.30	3.56	4.10	....	6.40	5.60	5.57	5.77	4.56	3.85

G614--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	3.96	3.23	4.25	3.55	4.27	....	6.42	5.52	5.67	5.70	4.60	3.81
17	3.92	3.20	4.20	3.52	4.62	....	6.40	5.45	5.70	5.62	4.62	3.80
18	3.88	3.19	4.14	3.48	4.87	....	e6.34	5.35	5.72	5.51	4.63	3.77
19	3.85	3.17	4.08	3.44	4.98	....	e6.32	5.28	5.77	5.48	4.63	3.75
20	3.80	3.15	4.07	3.40	5.03	....	e6.20	5.20	5.82	5.40	4.60	3.74
21	3.78	3.14	4.06	3.36	5.03	....	e6.10	5.12	5.83	5.32	4.56	3.72
22	3.76	3.13	4.05	3.33	5.00	....	e5.99	5.08	5.84	5.40	4.55	3.70
23	3.76	3.14	4.02	3.37	4.98	....	e5.88	5.14	5.82	5.45	4.52	3.68
24	3.75	3.13	3.98	3.65	4.98	....	e6.35	5.13	5.78	5.46	4.49	3.66
25	3.73	3.13	3.95	3.82	4.97	....	e6.50	5.12	5.73	5.40	4.47	3.65
26	3.71	3.13	3.90	3.93	4.97	....	e6.55	5.10	5.75	5.34	4.44	3.63
27	3.68	3.12	3.87	4.00	5.75	....	e6.63	5.08	5.78	5.28	4.41	3.60
28	3.65	3.42	3.82	4.02	6.87	7.30	6.82	5.05	5.82	5.25	4.37	3.58
29	3.64		3.75	4.07	6.91	7.11	7.34	5.05	5.85	5.32	4.35	3.55
30	3.61		3.70	4.10	7.32	6.96	7.23	5.06	5.84	5.33	4.31	3.54
31	3.59		3.65		7.33		7.06	5.12		5.29		3.52

e Estimated.

G615. U. S. Geol. Survey. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 6, T. 52 S., R. 41 E. Drilled observation water-table well in sand of Biscayne aquifer, diameter 6 inches, depth 24 feet, cased to 22, gravel packed 17-24. Land-surface datum is 6.50 feet above msl. Highest water level 6.65 above msl, Nov. 24, 1950; lowest 1.06 above msl, June 17, 21, 1952. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.57	2.53	2.22	2.12	2.68	5.33	4.12	3.39	2.41	4.75	3.05	2.92
2	3.52	2.51	2.27	2.07	2.62	5.22	4.00	3.30	2.94	5.52	3.00	2.87
3	3.49	2.50	2.28	2.05	2.57	4.62	3.88	3.19	2.96	5.07	2.98	2.82
4	3.45	2.45	2.28	2.03	2.50	5.56	3.75	3.08	2.92	4.40	2.96	2.77
5	3.41	2.42	2.27	2.05	2.45	4.74	3.71	3.00	2.83	4.24	2.95	2.73
6	3.36	2.40	2.26	2.25	2.42	4.43	3.72	2.92	2.80	4.40	2.90	2.71
7	3.31	2.38	2.32	2.75	2.39	4.24	3.75	2.85	2.76	4.10	2.85	2.67
8	3.27	2.37	2.34	3.30	2.35	4.06	3.75	2.78	2.73	5.00	2.82	2.65
9	3.23	2.35	2.39	3.25	2.32	3.92	3.74	2.75	2.65	4.95	2.79	2.62
10	3.20	2.32	2.38	3.22	2.28	3.80	3.85	2.72	2.62	4.62	2.75	2.58
11	3.18	2.29	2.52	3.15	2.24	3.68	3.71	2.71	2.57	4.18	2.73	2.55
12	3.17	2.25	2.50	3.03	2.29	3.60	3.98	2.69	2.55	4.03	3.50	2.52
13	3.15	2.25	2.48	2.95	3.24	3.50	3.64	2.65	3.42	4.67	3.86	2.50
14	3.11	2.21	2.45	2.88	3.32	3.41	3.57	2.60	3.54	4.02	3.90	2.59
15	3.10	2.19	2.40	2.82	3.46	3.80	3.62	2.55	3.45	3.90	3.84	2.52
16	3.07	2.16	2.35	2.76	3.63	3.69	3.62	2.51	3.36	3.78	3.74	2.47
17	3.03	2.15	2.31	2.70	3.68	3.64	3.62	2.47	3.30	3.68	3.64	2.45
18	2.99	2.13	2.28	2.65	3.48	5.55	3.60	2.43	4.15	3.62	3.55	2.43
19	2.96	2.11	2.25	2.61	3.35	6.12	3.55	2.38	3.95	3.53	3.48	2.41
20	2.94	2.09	2.52	2.57	3.32	4.85	3.45	2.35	3.76	3.44	3.60	2.37
21	2.90	2.08	2.55	2.68	3.23	4.61	3.35	2.34	3.62	3.39	3.43	2.33
22	2.88	2.05	2.54	2.85	3.17	5.16	3.29	2.31	3.52	3.34	3.35	2.31
23	2.84	2.04	2.48	3.13	3.20	....	3.20	2.36	3.44	3.30	3.34	2.27
24	2.79	2.02	2.43	3.17	3.07	....	3.30	2.33	3.40	3.23	3.26	2.24
25	2.75	2.00	2.39	3.05	3.01	....	3.39	2.30	4.06	3.19	3.22	2.22
26	2.72	2.00	2.35	3.02	2.99	....	3.34	2.26	3.83	3.14	3.15	2.18
27	2.70	1.99	2.30	2.96	5.05	....	3.25	2.44	4.68	3.28	3.11	2.15
28	2.65	2.08	2.25	2.90	4.85	....	3.96	2.38	4.43	3.34	3.04	2.13
29	2.62		2.22	2.83	4.60	4.34	4.00	2.31	4.14	3.37	3.00	2.11
30	2.58		2.17	2.75	4.44	4.21	3.65	2.31	3.91	3.21	2.95	2.09
31	2.56		2.15		4.16		3.52	2.30		3.12		2.09

G618. U. S. Geol. Survey. On U. S. Highway 41. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 54 S., R. 37 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 11. Land-surface datum is 7.40 feet above msl. Highest water level 8.55 above msl, Nov. 17, 1953; lowest 3.49 above msl, June 5, 1951. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.11	7.63	7.21	6.80	6.62	6.85	7.50	7.76	8.22	8.50	8.37	8.25
2	8.10	7.62	7.20	6.78	6.60	6.90	7.50	7.76	8.33	8.52	8.35	8.24
3	8.09	7.60	7.19	6.77	6.58	6.94	7.49	7.77	8.32	8.52	8.34	8.22
4	8.08	7.57	7.17	6.75	6.57	7.01	7.48	7.77	8.31	8.52	8.32	8.21
5	8.06	7.55	7.15	6.75	6.56	7.05	7.47	7.77	8.29	8.52	8.31	8.20

G618--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	8.05	7.53	7.15	6.75	6.55	7.06	7.47	7.78	8.27	8.52	8.30	8.18
7	8.02	7.52	7.15	6.75	6.53	7.06	7.47	7.78	8.26	8.53	8.28	8.17
8	8.01	7.51	7.14	6.83	6.51	7.07	7.46	7.80	8.25	8.53	8.27	8.16
9	8.00	7.49	7.13	6.83	6.49	7.07	7.46	7.80	8.23	8.54	8.25	8.15
10	7.99	7.47	7.13	6.82	6.47	7.07	7.46	7.80	8.20	8.54	8.25	8.14
11	7.98	7.45	7.13	6.81	6.45	7.07	7.48	7.80	8.19	8.54	8.24	8.12
12	7.97	7.43	7.12	6.80	6.44	7.07	7.51	7.81	8.20	8.54	8.29	8.11
13	7.95	7.41	7.11	6.78	6.59	7.07	7.51	7.82	8.25	8.54	8.30	8.10
14	7.93	7.40	7.10	6.76	6.60	7.06	7.55	7.82	8.26	8.54	8.38	8.10
15	7.92	7.37	7.07	6.75	6.60	7.08	7.58	7.82	8.27	8.54	8.39	8.07
16	7.91	7.35	7.05	6.73	6.65	7.13	7.62	7.82	8.27	8.54	8.39	8.05
17	7.90	7.34	7.02	6.71	6.65	7.13	7.63	7.82	8.28	8.51	8.39	8.05
18	7.88	7.31	7.00	6.69	6.65	7.22	7.63	7.82	8.29	8.50	8.38	8.05
19	7.86	7.30	7.00	6.68	6.65	7.30	7.64	7.82	8.29	8.48	8.37	8.04
20	7.85	7.28	7.00	6.67	6.65	7.30	7.64	7.83	8.32	8.47	8.36	8.02
21	7.83	7.27	7.00	6.67	6.65	7.30	7.64	7.84	8.34	8.45	8.36	8.01
22	7.82	7.23	7.00	6.65	6.65	7.45	7.64	7.85	8.34	8.44	8.35	8.00
23	7.80	7.21	6.99	6.66	6.64	7.45	7.64	7.86	8.34	8.43	8.35	7.99
24	7.78	7.20	6.97	6.67	6.63	7.47	7.64	7.87	8.35	8.41	8.33	7.98
25	7.76	7.16	6.95	6.67	6.61	7.47	7.64	7.90	8.38	8.40	8.32	7.96
26	7.74	7.15	6.93	6.67	6.65	7.47	7.65	7.92	8.40	8.39	8.31	7.95
27	7.72	7.13	6.92	6.67	6.73	7.48	7.67	7.93	8.41	8.36	8.30	7.93
28	7.68	7.21	6.90	6.66	6.73	7.50	7.69	7.95	8.41	8.38	8.29	7.92
29	7.68		6.86	6.65	6.74	7.50	7.70	7.99	8.42	8.38	8.26	7.91
30	7.67		6.85	6.64	6.77	7.50	7.72	8.02	8.45	8.38	8.26	7.89
31	7.66		6.82		6.78		7.75	8.10		8.38		7.88

G619. U. S. Geol. Survey. On U. S. Highway 41. NW $\frac{1}{4}$  sec. 19, T. 54 S., R. 36 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 12 feet, cased to 6. Land-surface datum is 7.20 feet above msl. Highest water level 8.38 above msl, Oct. 2, 1954; lowest 4.77 above msl, June 6, 1951. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.97	7.80	e7.70	7.36	7.41	7.55	7.97	8.03	8.32	8.34	8.17	8.15
2	7.97	7.80	e7.70	7.33	7.37	7.61	7.95	8.03	8.30	8.38	8.17	8.15
3	7.97	7.79	e7.69	7.30	7.33	7.62	7.94	8.03	8.25	8.36	8.17	8.14
4	7.97	7.78	e7.69	7.35	7.38	7.75	7.93	8.02	8.25	8.35	8.17	8.14
5	7.96	7.78	e7.68	7.34	7.33	7.74	7.92	8.03	8.24	8.34	8.15	8.14
6	7.95	7.77	e7.68	7.32	7.30	7.88	7.94	8.03	8.24	8.32	8.14	8.15
7	7.95	7.77	e7.67	7.28	7.25	7.86	7.94	8.04	8.23	8.33	8.13	8.14
8	7.95	7.77	e7.67	7.27	7.19	7.85	7.94	8.04	8.22	8.33	8.13	8.13
9	7.94	7.77	e7.66	7.26	7.14	7.83	7.94	8.04	8.21	8.33	8.12	8.13
10	7.94	7.76	e7.65	7.24	7.20	7.81	7.94	8.04	8.20	8.33	8.12	8.13
11	7.94	7.76	e7.65	7.19	7.06	7.80	8.08	8.04	8.16	8.32	8.12	8.13
12	7.93	7.75	e7.64	7.15	7.31	7.79	8.00	8.06	8.16	8.31	8.17	8.12
13	7.92	7.74	e7.63	7.11	7.55	7.77	7.99	8.06	8.20	8.31	8.19	8.12
14	7.92	7.72	e7.62	7.06	7.57	7.77	7.98	8.09	8.20	8.30	8.19	8.12
15	7.92	7.72	e7.61	7.00	7.59	7.80	7.98	8.05	8.24	8.29	8.19	8.11
16	7.91	7.70	e7.60	6.92	7.61	7.80	7.98	8.05	8.24	8.27	8.19	8.10
17	7.90	7.70	e7.59	6.87	7.60	7.80	7.98	8.05	8.24	8.26	8.19	8.09
18	7.90	7.68	e7.58	6.82	7.55	7.80	7.97	8.04	8.23	8.25	8.19	8.11
19	7.90	7.67	e7.57	6.78	7.52	7.85	7.96	8.04	8.23	8.24	8.18	8.11
20	7.89	7.66	e7.56	e6.71	7.49	7.85	7.95	8.02	8.24	8.24	8.17	8.11
21	7.89	7.65	e7.55	e6.65	7.48	7.85	7.95	8.03	8.24	8.23	8.17	8.10
22	7.89	7.64	e7.53	e6.60	7.45	7.96	7.93	8.03	8.27	8.22	8.17	8.10
23	7.88	7.62	e7.52	e6.55	7.41	7.97	7.93	8.03	8.30	8.22	8.17	8.10
24	7.86	7.60	e7.50	e7.00	7.37	7.97	7.95	8.04	8.33	8.21	8.17	8.09
25	7.85	7.58	e7.49	7.45	7.31	8.00	7.95	8.07	8.37	8.21	8.17	8.08
26	7.85	7.58	e7.47	7.48	7.43	8.00	8.03	8.28	8.37	8.20	8.16	8.07
27	7.83	7.57	e7.46	7.49	7.52	8.00	8.01	8.13	8.34	8.18	8.15	8.07
28	7.81	7.70	e7.45	7.49	7.52	7.97	8.01	8.07	8.32	8.20	8.15	8.06
29	7.81		7.44	7.47	7.52	7.97	8.03	8.10	8.30	8.20	8.14	8.05
30	7.81		7.43	7.45	7.52	7.97	8.03	8.29	8.30	8.20	8.15	8.04
31	7.81		7.40		7.52		8.03	8.20		8.19		8.03

e Estimated.

G620. Owner unknown. Sec. 30, T. 55 S., R. 36 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 16 feet, cased to 6. Land-surface datum is 6.13 feet above msl. Highest water level 7.11 above msl, Oct. 2-3, 1954; lowest 3.57 above msl, May 26, 1952. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.67	6.35	6.15	5.80	5.82	6.10	6.45	6.55	6.75	7.10	6.78	6.73
2	6.66	6.35	6.13	5.79	5.81	6.08	6.43	6.53	6.80	7.11	6.78	6.72
3	6.65	6.33	6.12	5.90	5.80	6.07	6.40	6.50	6.82	7.11	6.77	6.71
4	6.65	6.31	6.10	5.87	5.80	6.14	6.38	6.48	6.82	7.08	6.76	6.70
5	6.64	6.30	6.08	5.86	5.79	6.13	6.36	6.47	6.82	7.06	6.75	6.69
6	6.64	6.29	6.12	5.89	5.77	6.13	6.35	6.45	6.83	7.05	6.75	6.68
7	6.62	6.28	6.10	5.84	5.75	6.12	6.34	6.43	6.84	7.04	6.73	6.68
8	6.61	6.29	6.08	5.83	5.73	6.14	6.33	6.42	6.84	7.02	6.72	6.67
9	6.60	6.27	6.12	5.82	5.72	6.14	6.36	6.42	6.82	7.01	6.72	6.67
10	6.60	6.25	6.10	5.82	5.70	6.14	6.37	6.42	6.80	7.01	6.71	6.65
11	6.63	6.24	6.09	5.80	5.68	6.13	6.50	6.52	6.79	7.01	6.70	6.65
12	6.61	6.23	6.08	5.79	5.89	6.12	6.50	6.52	6.78	7.00	6.70	6.64
13	6.60	6.21	6.06	5.82	5.97	6.10	6.48	6.52	6.80	7.00	6.70	6.63
14	6.59	6.20	6.05	5.80	5.96	6.14	6.51	6.51	6.81	7.00	6.73	6.63
15	6.58	6.18	6.02	5.78	6.02	6.18	6.55	6.50	6.80	6.98	6.75	6.62
16	6.56	6.17	6.00	5.76	6.09	6.18	6.67	6.49	6.87	6.95	6.76	6.61
17	6.55	6.15	5.98	5.75	6.07	6.27	6.60	6.47	6.87	6.92	6.77	6.60
18	6.54	6.15	5.97	5.74	6.05	6.28	6.55	6.46	6.85	6.91	6.77	6.60
19	6.53	6.14	5.95	5.72	6.02	6.35	6.59	6.45	6.85	6.90	6.77	6.61
20	6.52	6.12	6.00	5.70	6.01	6.34	6.57	6.44	6.85	6.88	6.78	6.61
21	6.50	6.10	5.98	5.69	6.00	6.32	6.53	6.43	6.85	6.87	6.78	6.60
22	6.49	6.10	5.97	5.70	5.96	6.50	6.52	6.47	6.87	6.86	6.78	6.59
23	6.48	6.08	5.95	5.89	6.04	6.50	6.48	6.47	6.87	6.85	6.78	6.58
24	6.47	6.06	5.93	5.85	5.97	6.50	6.67	6.46	6.88	6.84	6.78	6.58
25	6.45	6.04	5.91	5.85	5.94	6.50	6.61	6.46	6.99	6.82	6.78	6.57
26	6.45	6.02	5.90	5.83	5.97	6.50	6.72	6.49	7.05	6.80	6.77	6.57
27	6.42	6.00	5.88	5.83	6.02	6.52	6.60	6.53	7.10	6.79	6.76	6.56
28	6.41	6.17	5.86	5.83	6.00	6.52	6.57	6.55	7.10	6.79	6.75	6.55
29	6.40		5.86	5.84	5.99	6.51	6.63	6.55	7.08	6.79	6.73	6.55
30	6.38		5.85	5.84	6.05	6.48	6.59	6.58	7.05	6.79	6.73	6.54
31	6.37		5.82		6.12		6.57	6.62		6.79		6.53

S18. Model Dairy. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 52 S., R. 41 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 8 inches, depth 52 feet. Land-surface datum is 9.12 feet above msl. Highest water level 7.54 above msl, Oct. 12, 1947; lowest 0.05 above msl, June 3, 1945. Records available: 1939-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.72	1.11	1.14	1.22	1.85	3.32	3.22	2.57	1.90	2.34	1.84	1.57
2	1.69	1.13	1.15	1.25	1.83	3.52	3.08	2.42	2.08	3.17	1.80	1.53
3	1.65	1.15	1.16	1.30	1.81	3.62	2.95	2.30	2.07	3.02	1.78	1.50
4	1.63	1.15	1.14	1.33	1.78	3.83	2.80	2.18	2.00	2.87	1.77	1.48
5	1.61	1.16	1.16	1.36	1.83	3.86	2.70	2.09	1.92	2.73	1.74	1.47
6	1.58	1.14	1.20	1.62	1.79	3.66	2.60	2.00	1.88	2.62	1.71	1.51
7	1.55	1.12	1.21	1.78	1.76	3.47	2.49	1.93	1.84	2.56	1.66	1.45
8	1.54	1.09	1.22	1.86	1.73	3.28	2.65	1.88	1.80	2.51	1.64	1.45
9	1.53	1.06	1.28	1.90	1.71	3.11	2.56	1.83	1.78	2.61	1.62	1.44
10	1.52	1.04	1.30	1.94	1.69	2.96	2.64	1.79	1.76	2.67	1.60	1.42
11	1.48	1.00	1.32	1.89	1.67	2.82	2.52	1.76	1.76	2.69	1.66	1.39
12	1.44	.96	1.30	1.86	2.30	2.71	2.44	1.73	1.86	2.68	2.14	1.37
13	1.42	.94	1.28	1.88	2.74	2.63	2.39	1.69	2.35	2.64	2.28	1.36
14	1.40	.92	1.25	1.89	2.75	2.58	2.37	1.65	2.44	2.62	2.34	1.33
15	1.39	.91	1.20	1.86	2.63	2.63	3.14	1.60	2.40	2.55	2.37	1.29
16	1.35	.89	1.16	1.85	2.68	2.58	2.98	1.56	2.34	2.44	2.34	1.25
17	1.34	.88	1.13	1.82	2.65	3.06	2.82	1.51	2.47	2.35	2.28	1.23
18	1.33	.86	1.18	1.79	2.63	3.83	2.69	1.45	e2.53	2.28	2.24	1.18
19	1.32	.85	1.29	1.78	2.58	3.66	2.59	1.40	e2.50	2.22	2.20	1.15
20	1.30	.84	1.35	1.76	2.52	3.45	2.46	1.35	2.43	2.19	2.13	1.11
21	1.27	.83	1.36	1.87	2.48	3.27	2.43	1.31	2.34	2.16	2.04	1.07
22	1.25	.81	1.36	1.97	2.46	4.57	2.32	1.34	2.26	2.12	2.00	1.05
23	1.22	.85	1.34	2.02	2.42	4.15	2.24	1.30	2.16	2.07	1.94	1.02
24	1.20	.87	1.32	2.04	2.37	4.60	2.97	1.27	2.15	2.03	1.88	1.00
25	1.20	.86	1.29	2.05	2.33	4.38	2.84	1.26	2.16	1.99	1.83	.95

S18--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.20	0.86	1.26	1.99	2.66	4.05	2.72	1.37	2.17	1.95	1.82	0.96
27	1.18	.87	1.22	1.95	3.66	3.82	3.08	1.40	2.28	1.97	1.76	.94
28	1.16	1.09	1.20	1.90	3.50	3.62	3.15	1.41	2.30	2.00	1.72	.93
29	1.14		1.18	1.89	3.28	3.54	3.09	1.49	2.27	1.98	1.67	.90
30	1.12		1.14	1.88	3.10	3.38	2.90	1.54	2.25	1.94	1.62	.88
31	1.12		1.18		2.95		2.72	1.55		1.88		.86

e Estimated.

S19. City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 53 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 95 feet, cased to 91. Land-surface datum is 7.24 feet above msl. Highest water level 7.63 above msl, Oct. 11, 1947; lowest 1.41 below msl, June 18-21, 1945. Records available: 1939-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.47	0.95	0.82	0.16	0.82	2.10	2.05	1.49	1.26	2.35	1.86	1.63
2	1.58	.86	.87	.20	.78	2.24	1.94	1.33	1.42	2.66	1.74	1.70
3	1.53	.87	.72	.24	.85	2.47	1.82	1.29	1.51	2.62	1.68	1.68
4	1.57	.95	.65	.32	.77	2.69	1.68	1.22	1.54	2.48	1.72	1.63
5	1.51	.99	.70	.52	.70	2.81	1.60	1.07	1.53	2.38	1.60	1.49
6	1.44	1.02	.73	.56	.68	2.50	1.51	.95	1.49	2.55	1.58	1.48
7	1.33	.92	.76	.51	.74	2.45	2.10	.87	1.58	2.60	1.71	1.65
8	1.24	1.06	.58	1.63	.66	2.18	2.09	.82	1.54	2.44	1.61	1.69
9	1.19	.81	.62	1.72	.64	2.08	1.97	.92	1.60	2.51	1.53	1.48
10	1.25	.88	.66	1.52	.59	1.97	3.83	.88	1.28	2.36	1.50	1.54
11	1.41	.71	.71	1.34	.54	1.74	3.26	1.02	1.42	2.35	1.56	1.61
12	1.49	.65	.66	1.23	.86	1.58	2.87	1.08	1.54	2.44	3.10	1.53
13	1.52	.62	.69	1.16	2.05	e1.49	2.51	.85	1.71	2.52	3.39	1.55
14	1.35	.59	.59	1.04	2.14	e1.79	2.34	.83	1.88	2.55	3.11	1.44
15	1.23	.55	.52	1.07	1.72	e1.77	2.22	.88	2.11	2.37	3.02	1.39
16	1.31	.54	.53	1.03	1.60	e1.90	2.17	.81	2.22	2.23	2.75	1.44
17	1.34	.50	.54	.91	1.68	e2.04	2.08	.74	2.41	2.15	2.49	1.39
18	1.24	.54	.40	.84	1.41	2.45	1.99	.68	3.16	2.28	2.32	1.48
19	1.20	.44	.37	.76	1.23	2.50	1.97	.65	3.19	1.99	2.20	1.50
20	1.14	.48	.50	.72	1.29	2.38	1.79	.58	2.70	1.92	2.35	1.32
21	1.21	.37	.59	.78	1.09	2.58	1.72	.53	2.54	1.88	2.37	1.49
22	1.09	.35	.67	.81	.94	3.23	1.62	.75	2.34	2.00	2.23	1.33
23	1.07	.46	.56	.96	.97	3.26	1.63	.79	2.15	2.02	2.10	1.25
24	1.00	.33	.51	1.02	.85	3.19	1.57	.79	2.00	1.94	2.01	1.11
25	.99	.35	.41	.97	.80	3.05	1.70	.82	2.09	1.91	1.97	1.17
26	1.02	.31	.34	1.02	.74	3.05	1.75	.78	2.06	2.05	1.92	1.25
27	1.09	.27	.39	.85	2.13	2.89	1.76	.84	1.97	2.09	1.80	1.28
28	.98	.65	.40	.78	2.85	2.60	1.80	.88	1.98	1.93	1.71	1.04
29	.91	.27	.92	2.54	2.40	1.81	1.01	2.01	1.99	1.99	1.69	1.00
30	.89	.24	.96	2.35	2.21	1.53	1.05	1.89	2.07	1.79	.94	
31	.86	.19	2.08			1.44	1.06		2.11		.90	

e Estimated.

S68. City of Miami. In center of Parkway, 75 feet northeast of Deer Run, Miami Springs. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 61 feet, cased to 51. Land-surface datum is 6.45 feet above msl. Highest water level 7.06 above msl, Oct. 12, 1947; lowest 2.38 below msl, June 17, 1945. Records available: 1940-54. Water level affected by pumping of nearby wells.

Daily lowest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.43	-0.43	-0.28	-1.03	+0.29	+1.32	+1.24	+0.70	+0.30	+1.25	+0.99	+0.83
2	.28	.27	.21	1.10	-.08	1.34	1.12	.35	.58	1.76	.77	.44
3	.19	.41	.34	1.07	.12	1.96	.92	.14	.66	1.83	.70	.29
4	.14	.18	.51	.58	.16	1.90	.93	+0.6	.39	1.69	.53	.47
5	.10	.09	.60	.58	.07	2.06	.79	-.22	.38	1.53	.56	.36
6	.05	.22	.65	.50	.02	1.92	.55	.39	.77	1.50	.52	.38
7	.02	.22	.67	.31	.02	1.45	.95	.29	.71	1.58	.64	.34
8	.15	.16	.54	-.28	.12	1.34	.92	.09	.75	1.44	.34	.45
9	.03	.22	.30	+1.17	.32	1.30	.90	.16	.66	1.36	.32	.34
10	.08	.33	.40	.09	.32	1.12	.90	.20	.48	1.34	.63	.31
11	.32	.40	.51	.33	.43	.92	2.56	.14	.35	1.80	.83	.29
12	.35	.60	.55	.40	-.44	.76	1.96	.16	.42	1.61	.67	.25
13	+.09	.61	.55	.17	+.35	.58	1.87	.01	.64	1.59	2.22	.26
14	-.01	.64	.40	+1.12	1.19	.55	1.67	.28	.76	1.57	2.30	.34
15	+.02	.67	.57	-.05	1.19	1.02	1.57	.34	1.02	1.60	1.89	.33

## S68--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	+0.34	-0.75	-0.50	-0.30	+1.24	+1.12	+1.51	-0.30	+1.06	+1.59	+1.68	+0.36
17	+0.06	.75	.51	.05	.94	1.12	1.39	.29	1.38	1.79	1.67	.20
18	-.04	.62	.42	.12	.71	....	1.19	.37	1.60	1.41	1.78	.16
19	+0.02	.54	.46	.12	.56	....	1.17	.52	2.18	1.22	1.65	.38
20	+0.10	.49	.46	.13	.41	....	1.13	.54	1.95	.99	1.34	.40
21	-.05	.69	.11	-.11	.30	....	.85	.55	1.52	1.13	1.34	.26
22	.12	.74	.22	+0.01	.11	....	.75	.55	1.28	1.00	1.17	.14
23	.02	.74	.29	.15	+0.05	....	.95	.15	1.14	.84	1.08	+0.01
24	.10	.74	.42	.17	-.03	....	.82	.05	1.15	.84	.96	.00
25	.18	.81	.58	.24	-.15	2.46	1.10	.09	1.18	.82	1.21	+0.16
26	.17	.85	.73	.21	-.11	2.35	1.06	.10	1.15	.82	1.05	+0.26
27	.28	.78	.82	+0.21	+0.26	2.16	.86	.20	1.05	.85	.94	-.01
28	.38	.78	.84	-.04	1.47	1.95	.84	.17	1.10	.94	.92	.04
29	.37		.60	+0.01	2.12	1.52	.70	-.15	1.10	.94	.95	.11
30	.32		.82	+0.03	1.88	1.37	.59	+0.08	1.19	1.00	.86	.22
31	.29		.98		1.49		.54	+0.16		1.12		.23

S182. International Fruit Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 56 S., R. 40 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 51 feet. Land-surface datum is 11.14 feet above msl. Highest water level 10.06 above msl, Oct. 5, 1948; lowest 0.44 below msl, June 20-22, 1945. Records available: 1940-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.55	3.63	4.02	3.65	3.73	7.35	7.29	7.50	5.95	6.14	5.05	4.63
2	4.51	3.60	4.11	3.60	3.70	7.31	7.18	7.40	6.01	6.23	5.00	4.58
3	4.48	3.57	4.14	3.55	3.66	7.24	7.05	7.30	6.01	6.20	4.93	4.53
4	4.44	3.55	4.15	3.51	3.63	7.19	6.95	7.20	5.98	6.15	4.89	4.45
5	4.41	3.51	4.16	3.48	3.60	7.11	6.87	7.10	5.96	6.07	4.83	4.40
6	4.39	3.49	4.16	3.45	3.55	7.01	6.77	7.00	6.02	6.19	4.78	4.38
7	4.35	3.45	4.17	3.42	3.52	6.94	7.10	6.92	6.03	6.63	4.74	4.33
8	4.31	3.44	4.17	3.64	3.48	6.85	7.03	6.84	5.96	6.49	4.68	4.27
9	4.29	3.42	4.22	3.80	3.43	6.75	6.90	6.77	5.89	6.42	4.62	4.23
10	4.25	3.40	4.27	3.83	3.40	6.67	6.87	6.70	5.84	6.33	4.59	4.20
11	4.23	3.38	4.29	3.83	3.37	6.55	7.05	6.66	5.76	6.22	4.54	4.16
12	4.23	3.35	4.29	3.83	3.35	6.45	7.00	6.65	5.74	6.13	4.51	4.12
13	4.20	3.33	4.29	3.82	4.00	6.34	6.93	6.55	5.77	6.05	4.55	4.09
14	4.18	3.31	4.28	3.78	4.17	6.62	7.22	6.45	5.81	5.99	4.59	4.05
15	4.15	3.27	4.24	3.73	4.28	6.67	7.40	6.40	5.96	5.92	5.54	4.02
16	4.12	3.23	4.19	3.70	5.00	6.90	7.42	6.32	5.96	5.82	5.73	3.97
17	4.10	3.21	4.15	3.65	5.27	7.06	7.34	6.20	6.17	5.73	5.73	3.95
18	4.07	3.18	4.11	3.61	5.33	7.48	7.25	6.10	6.24	5.65	5.64	3.94
19	4.03	3.16	4.08	3.55	5.35	7.48	7.15	6.01	6.24	5.58	5.54	3.92
20	4.00	3.13	4.12	3.55	5.30	7.40	7.06	5.92	6.18	5.50	5.45	3.88
21	3.97	3.12	4.14	3.53	5.26	7.31	6.97	5.81	6.13	5.43	5.34	3.85
22	3.93	3.13	4.13	3.55	5.23	7.32	6.87	5.80	6.06	5.52	5.25	3.82
23	3.91	3.17	4.10	3.65	5.19	7.37	7.02	5.77	6.00	5.50	5.18	3.78
24	3.88	3.15	4.05	3.75	5.14	7.34	6.87	5.70	5.95	5.45	5.10	3.75
25	3.84	3.15	4.00	3.79	5.05	7.31	7.64	5.70	5.88	5.40	5.02	3.71
26	3.80	3.14	3.97	3.80	5.02	7.41	7.60	5.63	6.01	5.33	4.94	3.68
27	3.77	3.12	3.90	3.82	7.52	7.45	7.57	5.55	6.02	5.29	4.88	3.65
28	3.73	3.65	3.82	3.81	7.45	7.62	7.52	5.50	6.25	5.25	4.81	3.60
29	3.71		3.78	3.79	7.40	7.56	7.61	5.45	6.15	5.23	4.75	3.58
30	3.69		3.74	3.76	7.47	7.40	7.62	5.48	6.07	5.15	4.68	3.57
31	3.66		3.70		7.39		7.58	5.70		5.09		3.55

S196. University of Florida Experiment Station. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 35, T. 56 S., R. 38 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 20 feet. Land-surface datum is 10.32 feet above msl. Highest water level 9.58 above msl, Oct. 5, 1933; lowest 1.23 below msl, June 20, 1945. Records available: 1932-54.

## Daily water level above msl

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.58	3.06	3.22	2.88	4.12	6.48	5.52	5.72	5.02	5.12	4.48	3.52
2	3.54	2.96	3.46	2.82	4.02	6.48	5.40	5.58	5.32	5.98	4.42	3.52
3	3.54	2.86	3.52	2.78	3.98	6.28	5.24	5.42	5.32	5.88	4.38	3.42
4	3.52	2.88	3.58	2.76	3.82	6.08	5.12	5.28	5.24	5.80	4.30	3.37
5	3.50	2.86	3.56	2.72	3.78	5.92	5.10	5.20	5.12	5.62	4.24	3.62

S196--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	3.48	2.86	3.52	2.72	3.62	5.76	4.92	5.08	5.22	5.56	4.20	3.32
7	3.46	2.82	3.52	2.70	3.62	5.64	4.80	5.20	5.12	5.50	4.12	3.28
8	3.42	2.82	3.48	2.72	3.52	5.46	4.82	5.08	5.02	5.48	4.06	3.27
9	3.40	2.78	3.54	3.08	3.38	5.34	4.78	5.06	4.92	5.42	4.02	3.22
10	3.38	2.78	3.66	3.22	3.32	5.22	4.92	4.98	4.82	5.38	3.96	3.22
11	3.34	2.78	3.74	3.28	3.24	5.08	5.20	4.94	4.72	5.32	3.90	3.18
12	3.38	2.76	3.72	3.28	3.14	4.96	5.18	4.82	4.62	5.24	3.88	3.12
13	3.38	2.72	3.72	3.31	3.32	4.86	5.16	4.82	4.72	5.28	3.82	3.12
14	3.36	2.70	3.70	3.28	3.76	4.84	5.04	4.72	4.92	5.24	3.82	3.12
15	3.34	2.72	3.62	3.24	3.86	4.80	5.04	4.68	5.12	5.14	3.90	3.08
16	3.34	2.70	3.56	3.10	4.06	4.92	5.20	4.58	5.12	5.08	3.88	3.08
17	3.32	2.68	3.50	3.02	4.38	5.18	5.10	4.52	5.06	4.96	3.90	3.08
18	3.30	2.62	3.42	2.96	4.50	5.92	5.10	4.34	5.02	4.86	3.88	3.02
19	3.30	2.62	3.36	2.92	4.48	6.18	5.00	4.32	5.22	4.84	3.82	3.00
20	3.28	2.58	3.34	2.82	4.44	6.02	4.92	4.22	5.42	4.74	3.80	3.00
21	3.26	2.56	3.42	2.78	4.38	5.82	4.94	4.20	5.32	4.64	3.76	2.98
22	3.24	2.52	3.40	2.78	4.42	5.68	5.08	4.12	5.22	4.64	3.76	2.98
23	3.22	2.52	3.38	2.80	4.66	6.00	5.02	4.22	5.18	4.66	3.74	2.90
24	3.20	2.50	3.32	3.62	4.82	6.18	5.22	4.12	5.08	4.60	3.72	2.92
25	3.20	2.44	3.28	3.82	4.82	6.28	5.62	4.18	5.00	4.54	3.72	2.88
26	3.14	2.42	3.28	3.82	4.81	6.20	5.68	4.12	4.98	4.50	3.68	2.82
27	3.12	2.42	3.18	3.82	5.78	6.06	5.70	4.32	4.96	4.42	3.62	2.82
28	3.10	2.56	3.16	3.84	....	5.88	5.62	4.42	5.28	4.40	3.62	2.82
29	3.10		3.10	4.14	....	5.80	6.02	4.52	5.26	4.62	3.62	2.80
30	3.06		3.04	4.12	....	5.68	5.94	4.92	5.18	4.62	3.52	2.78
31	3.04		2.98	....	....	....	5.82	4.92	....	4.58	....	2.78

S539. U. S. Department of Agriculture. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 24, T. 55 S., R. 40 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 8 inches, depth 29 feet. Land-surface datum is 16.97 feet above msl. Highest water level 5.99 above msl, Sept. 15, 1945; lowest 0.31 below msl, Mar. 31, June 29, 1950. Records available: 1945-54. Water level affected by tides in Biscayne Bay.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.53	0.58	0.55	0.40	0.95	1.87	1.34	1.18	1.15	0.95	0.91	0.39
2	.59	.70	.50	.52	.98	1.87	1.28	1.09	1.04	1.01	.90	.37
3	.58	.79	.54	.62	.96	1.74	1.27	1.02	.98	.87	.95	.49
4	.52	.79	.47	.75	.93	1.73	1.13	.94	.97	.74	.97	.63
5	.52	.82	.61	.86	.90	1.72	1.01	.90	.93	....	.93	.72
6	.59	.82	.67	1.00	.89	1.60	.96	.90	1.07	....	.93	.79
7	.58	.73	.69	.78	.92	1.48	.92	.92	1.22	....	.95	.85
8	.59	.68	.68	.66	.86	1.40	.83	.95	1.27	....	.98	.93
9	.72	.52	.72	.62	.79	1.30	.96	1.03	1.29	....	1.12	.96
10	.70	.47	.75	.60	.75	1.20	.94	1.09	1.42	....	1.25	.92
11	.64	.45	.69	.60	.78	1.18	.87	1.17	1.51	....	1.33	.89
12	.39	.40	.58	.56	1.02	1.25	.95	1.17	1.60	....	1.55	.80
13	.41	.46	.49	.62	1.27	1.26	1.08	1.19	1.82	....	1.57	.75
14	.65	.53	.43	.80	1.02	1.27	1.22	1.16	1.83	....	1.47	.71
15	.60	.51	.37	.89	1.17	1.31	1.39	1.15	1.80	....	1.32	.53
16	.55	.46	.35	.91	1.30	1.32	1.39	1.10	1.78	....	1.35	.43
17	.50	.36	.41	.83	1.30	1.32	1.36	1.04	1.55	....	1.15	.37
18	.50	.36	.53	.72	1.16	1.38	1.41	.98	1.58	....	.93	.37
19	.55	.38	.67	.75	1.18	1.38	1.40	.87	1.31	....	.87	.23
20	.58	.45	.68	.78	1.09	1.30	1.31	.79	1.20	....	.79	.14
21	.51	.40	.57	.85	1.02	1.28	1.23	.79	1.05	....	.80	.14
22	.42	.38	.47	.89	.98	1.32	1.10	.83	1.05	....	.70	.24
23	.39	.44	.51	.83	1.13	1.42	1.08	.81	.98	....	.72	.27
24	.46	.48	.45	.74	1.16	1.35	1.20	.81	1.15	....	.72	.30
25	.53	.29	.42	.67	1.18	1.41	1.33	.94	1.15	....	.63	.30
26	.67	.30	.39	.70	1.24	1.35	1.32	.97	1.12	1.30	.58	.32
27	.67	.39	.30	.72	1.58	1.37	1.31	.99	1.22	1.31	.56	.27
28	.57	.77	.25	.81	1.47	1.40	1.35	1.05	1.19	1.27	.58	.32
29	.60		.33	.88	1.43	1.35	1.40	1.09	1.15	1.27	.53	.30
30	.57		.39	.93	1.54	1.34	1.35	1.15	1.06	1.16	.47	.17
31	.64		.38		1.60		1.30	1.16		1.02		.18



5539--Continued.

Daily lowest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.25	+0.27	+0.29	+0.03	+0.50	+1.37	+1.00	+0.97	+0.80	+0.65	+0.55	+0.09
2	.28	.25	.21	.08	.51	1.49	.99	.90	.75	.73	.56	.07
3	.29	.33	.16	.20	.50	1.48	.92	.82	.71	.63	.58	.08
4	.19	.38	.12	.30	.50	1.45	.82	.77	.72	.50	.62	.17
5	.20	.40	.12	.45	.46	1.38	.78	.75	.70	....	.56	.25
6	.20	.38	.25	.45	.49	1.30	.74	.73	.75	....	.55	.31
7	.20	.31	.26	.34	.52	1.23	.71	.75	.92	....	.51	.28
8	.20	.18	.26	.35	.45	1.13	.68	.77	.86	....	.52	.42
9	.34	.16	.34	.31	.45	1.09	.68	.80	.87	....	.52	.46
10	.31	.14	.35	.31	.43	1.00	.72	.85	.95	....	.63	.45
11	.28	.13	.29	.30	.48	.93	.71	.85	1.01	....	.75	.38
12	.16	.11	.25	.25	.50	.95	.74	.85	1.08	....	.83	.34
13	.14	.10	.22	.27	.78	.94	.78	.84	1.12	....	1.00	.32
14	.17	.17	.17	.37	.63	1.03	.90	.81	1.31	....	.96	.20
15	.30	.19	.10	.51	.61	1.00	1.00	.77	1.27	....	.86	.13
16	.23	.07	.02	.50	.88	1.03	1.08	.72	1.20	....	.80	.10
17	.15	.04	.05	.34	.95	.97	1.06	.71	1.10	....	.68	.08
18	.16	.02	.13	.35	.92	1.08	1.05	.63	1.08	....	.60	+.05
19	.18	.05	.28	.36	.86	1.00	1.03	.57	.97	....	.52	-.01
20	.24	.09	.29	.37	.78	.95	.99	.53	.89	....	.48	.08
21	.15	.09	.17	.41	.73	.97	.90	.54	.76	....	.45	.11
22	.13	.01	.14	.50	.76	1.00	.84	.59	.77	....	.35	.13
23	.10	.10	.15	.50	.82	1.07	.84	.52	.70	....	.33	.09
24	.15	.10	.12	.40	.83	1.03	.82	.52	.72	....	.30	.07
25	.15	.03	.10	.39	.83	1.10	.94	.58	.78	....	.27	.07
26	.28	.01	.05	.38	.90	1.05	1.01	.60	.75	.91	.22	.06
27	.33	.01	.05	.39	.92	1.07	1.08	.61	.76	.88	.14	.08
28	.28	.15	.05	.43	1.16	1.10	1.12	.65	.80	.81	.18	.05
29	.27		.02	.49	1.15	1.04	1.16	.62	.80	.63	.15	.07
30	.28		.08	.52	1.22	1.02	1.12	.77	.70	.74	.12	.13
31	.27		.04		1.18		1.04	.79		.61		.13

## Duval County

12. Jacksonville Motor Transit Co. McCoy St. and Riverside Ave., Jacksonville. Drilled industrial artesian well in Floridan aquifer, diameter 6 inches, reported depth 785 feet. Land-surface datum is 8.34 feet above msl. Highest water level 32.1 above lsd, Nov. 25, 1938; lowest 19.6 above lsd, Aug. 2, 1954. Records available: 1938, 1940-42, 1944, 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	+28.4	May 18	+22.6	Aug. 2	+19.6	Nov. 2	+26.1
Apr. 1	+25.6	June 28	+23.0	Sept. 14	+22.4	Dec. 14	+26.3

18. C. J. Price. Riverside Ave. and Lomax St., Jacksonville. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches. Land-surface datum is 4.48 feet above msl. Highest water level 43.2 above lsd, Nov. 26, 1938; lowest 27.2 above lsd, Aug. 2, 1954. Records available: 1938, 1940-41, 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	+35.9	May 18	+27.9	Aug. 2	+27.2	Nov. 2	+33.4
Apr. 1	+32.9	June 28	+29.8	Sept. 14	+30.9	Dec. 14	+33.9

102. V. A. Stevens. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, T. 2 S., R. 27 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 875 feet, cased to 400. Land-surface datum is 53.04 feet above msl. Highest water level 6.68 above lsd, Aug. 13, 1930; lowest 12.68 below lsd, Aug. 3, 1954. Records available: 1930-31, 1934, 1939-42, 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	3.56	May 19	11.56	Aug. 3	12.68	Nov. 1	9.45
Mar. 31	6.04	June 28	11.91	Sept. 15	9.70	Dec. 13	9.03

115. City of Jacksonville. Oxford Ave. and Baltic St., Ortega. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 729 feet, cased to 476. Land-surface datum is 16.12 feet above msl. Highest water level 40.2 above lsd, Aug. 22, 1930; lowest 18.4 above lsd, Aug. 2, 1954. Records available: 1930-31, 1938, 1940-42, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	+27.7	May 18	+21.0	Aug. 2	+18.4	Nov. 2	+23.9
Apr. 1	+24.2	June 28	+20.6	Sept. 14	+22.2	Dec. 14	+25.0

118. City of Jacksonville. Post and Dancy Sts. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 900 feet. Land-surface datum is 24.59 feet above msl. Highest water level 34.5 above lsd, Apr. 7, 1942; lowest 22.0 above lsd, Aug. 2, 1954. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	+28.1	May 18	+23.9	Aug. 2	+22.0	Nov. 2	+24.0
Apr. 1	+26.0	June 28	+23.4	Sept. 14	+23.7	Dec. 12	+24.1

122. City of Jacksonville. Russell and 63d Sts. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 905 feet, cased to 571. Land-surface datum is 14.87 feet above msl. Highest water level 47.5 above lsd, Aug. 21, 1930; lowest 33.1 above lsd, Mar. 5, 1952. Records available: 1930, 1938, 1940-42, 1944-54.

Feb. 3	+38.7	May 20	+35.4	Aug. 3	+33.7	Nov. 1	+34.7
Apr. 2	+36.7	June 29	+34.4	Sept. 14	+34.7	Dec. 13	+35.1

123. City of Jacksonville. Beaver and Huron Sts. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 1,075 feet. Land-surface datum is 22.78 feet above msl. Highest water level 39.7 above lsd, Aug. 13, 1930; lowest 25.3 above lsd, Aug. 2, 1954. Records available: 1930-31, 1938-54.

Feb. 4	+30.5	May 18	+27.0	Aug. 2	+25.3	Nov. 2	+26.5
Apr. 1	+27.5	June 29	+26.0	Sept. 14	+25.6	Dec. 12	+26.7

129. Jim Merrill. Ortega Blvd. and First St., Ortega. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 600 feet, cased to 470. Land-surface datum is 8.63 feet above msl. Highest water level 42.3 above lsd, July 9, 1940; lowest 22.5 above lsd, Aug. 2, 1954. Records available: 1940-42, 1944-54.

Feb. 4	+33.1	May 18	+24.3	Aug. 2	+22.5	Nov. 2	+30.2
Apr. 1	+30.1	June 28	+24.6	Sept. 14	+27.4	Dec. 14	+31.8

145. Duval County School Board. Oceanway School, 0.5 mile north of Broward. Drilled public-supply artesian well in Floridan aquifer, diameter 2 inches. Land-surface datum is 34.79 feet above msl. Highest water level 24.2 above lsd, June 3, 1947; lowest 13.3 above lsd, Aug. 3, 1954. Records available: 1940-42, 1944-54.

Feb. 4	+18.2	May 20	+14.8	Aug. 3	+13.3	Nov. 1	+13.9
Apr. 2	+16.5	June 29	+14.5	Sept. 15	+14.0	Dec. 13	+14.3

149. Mrs. W. M. Bostwick. Drummond Creek, 1.2 miles southwest of Eastport. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 800 feet. Land-surface datum is 29.22 feet above msl. Highest water level 28.5 above lsd, July 16, 1947; lowest 17.3 above lsd, Aug. 3, 1954. Records available: 1940-41, 1944-54.

Feb. 4	+22.9	May 20	+19.5	Aug. 3	+17.3	Nov. 1	+22.0
Apr. 2	+20.8	June 29	+18.1	Sept. 14	+18.4	Dec. 13	+19.8

154. J. M. Shield. SW $\frac{1}{4}$  sec. 22, T. 3 S., R. 27 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, depth 625 feet, cased to 461. Land-surface datum is 25.2 feet above msl. Highest water level 30.1 above lsd, July 15, 1947; lowest 18.9 above lsd, Aug. 3, 1954. Records available: 1940-42, 1944, 1946-54.

Feb. 5	+24.1	May 19	+21.2	Aug. 3	+18.9	Nov. 1	+21.1
Mar. 31	+22.1	June 28	+20.1	Sept. 15	+20.4	Dec. 13	+21.7

160. City of Neptune Beach. Florida Ave. and First St. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 585 feet, cased to 357. Land-surface datum is 12.05 feet above msl. Highest water level 41.7 above lsd, June 15, 1934; lowest 25.5 above lsd, Nov. 20, 1951. Records available: 1934, 1939-42, 1944-54.

Feb. 4	+34.5	May 19	+32.1	Aug. 3	+29.1	Nov. 1	+33.6
Mar. 31	+34.0	June 28	+32.0	Sept. 15	+31.5	Dec. 13	+33.9

164. Ribault Club. Fort George Island. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches, reported depth 840 feet, cased to 450. Land-surface datum is 15.71 feet above msl. Highest water level 45.0 above lsd, Aug. 19, 1930; lowest 29.3 above lsd, June 29, 1954. Records available: 1930-31, 1940-41, 1944-54.

Feb. 4	+37.4	May 20	+35.3	Aug. 3	+34.3	Nov. 1	+35.3
Apr. 2	+36.1	June 29	+29.3	Sept. 15	+34.4	Dec. 13	+35.3

206. John Harrell. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 3 S., R. 25 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 1,700 feet, cased to 1,000. Highest water level 2.07 below lsd, June 5, 1948; lowest 11.68 below lsd, Aug. 22, 1954. Records available: 1941-42, 1948-54.

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Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.65	6.35	6.74	7.85	8.85	9.44	10.34	10.82	11.10	10.60	10.40	10.40
2	6.66	6.22	6.88	7.90	8.85	9.45	10.41	10.80	11.13	10.58	10.33	10.27
3	6.50	6.08	6.85	7.89	8.77	9.57	10.47	10.85	11.10	10.58	10.42	10.29
4	6.45	6.11	7.03	7.94	8.80	9.65	10.49	11.12	11.08	10.56	10.31	10.34
5	6.31	6.21	7.02	8.05	8.85	9.74	10.34	11.21	11.05	10.57	10.25	10.25
6	6.33	6.31	6.98	8.10	8.95	9.80	10.25	11.25	10.97	10.60	10.27	10.15
7	6.43	6.38	6.93	8.14	9.04	9.80	10.32	11.35	10.91	10.68	10.32	10.44
8	6.42	6.39	6.90	8.19	9.14	9.90	10.41	11.37	10.86	10.63	10.34	10.42
9	6.36	6.26	6.78	8.28	9.30	9.90	10.43	11.27	10.84	10.53	10.35	10.29
10	6.17	6.26	6.75	8.36	9.34	9.75	10.30	11.28	10.82	10.41	10.39	10.38
11	6.07	6.27	6.83	8.28	9.37	9.73	10.22	11.23	10.88	10.30	10.37	10.45
12	6.30	6.50	6.94	8.23	9.35	9.74	10.16	11.21	10.90	10.27	10.30	10.40
13	6.39	6.64	7.02	8.25	9.25	9.72	10.17	11.29	10.90	10.28	10.22	10.20
14	6.32	6.63	7.01	8.17	9.25	9.74	10.26	11.39	10.85	10.18	10.13	10.19
15	6.15	6.61	7.25	8.22	9.30	9.73	10.35	11.43	10.75	10.00	10.01	10.21
16	6.03	6.59	7.42	8.20	9.34	9.65	10.41	11.37	10.70	10.25	9.96	10.35
17	6.13	6.58	7.40	8.27	9.27	9.60	10.43	11.40	10.68	10.35	9.99	10.30
18	6.24	6.68	7.31	8.40	9.25	.....	10.44	11.53	10.63	10.31	10.03	10.17
19	6.22	6.72	7.20	8.45	9.30	.....	10.43	11.63	10.58	10.20	9.97	10.23
20	6.21	6.72	7.08	8.49	9.34	.....	10.50	11.60	10.55	10.18	9.95	10.28
21	6.20	6.67	7.15	8.45	9.40	.....	10.62	11.61	10.55	10.18	10.03	10.32
22	6.10	6.75	7.30	8.43	9.45	.....	10.70	11.64	10.61	10.25	10.05	10.28
23	6.31	6.76	7.29	8.40	9.47	.....	10.77	11.60	10.67	10.35	10.04	10.30
24	6.35	6.55	7.38	8.44	9.51	.....	10.75	11.55	10.70	10.35	10.05	10.30
25	6.34	6.65	7.45	8.40	9.57	.....	10.80	11.37	10.65	10.30	10.09	10.38
26	6.33	6.62	7.55	8.37	9.70	.....	10.75	11.27	10.55	10.29	10.15	10.35
27	6.25	6.67	7.59	8.34	9.64	.....	10.65	11.27	10.45	10.30	10.12	10.32
28	6.30	6.56	7.64	8.37	9.47	.....	10.60	11.30	10.45	10.25	10.02	10.24
29	6.36		7.62	8.55	9.45	10.09	10.62	11.18	10.53	10.17	10.20	10.23
30	6.35		7.60	8.70	9.45	10.24	10.72	11.05	10.59	10.27	10.45	10.30
31	6.37		7.68		9.43		10.81	11.05		10.37		10.36

Escambia County

45. U. S. Geol. Survey. Cantonment. Drilled observation artesian well in sand, diameter 4 inches, depth 152 feet. Highest water level 70.01 below lsd, Aug. 5, 1940; lowest 107.29 below lsd, Nov. 30, 1954. Records available: 1940-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.56	104.67	104.62	104.84	104.64	104.82	105.65	105.92	106.06	106.35	106.72	107.15
2	104.42	104.46	104.65	104.89	104.47	104.72	105.72	105.85	106.14	106.32	106.78	106.90
3	104.43	104.24	104.79	104.90	104.34	104.76	105.70	105.89	106.16	106.31	106.82	106.79
4	104.40	104.28	105.01	104.88	104.38	104.76	105.64	105.99	106.21	106.34	106.54	106.73
5	104.32	104.39	104.89	104.92	104.38	105.01	105.61	105.99	106.26	106.34	106.69	106.43
6	104.42	104.41	104.77	104.89	104.37	105.07	105.60	105.87	106.19	106.35	106.71	106.69
7	104.57	104.55	104.72	104.80	104.38	105.03	105.63	105.81	106.06	106.45	106.73	106.97
8	104.53	104.59	104.67	104.80	104.44	105.09	105.62	105.85	105.99	106.57	106.82	106.86
9	104.45	104.42	104.42	104.82	104.59	105.09	105.61	105.89	105.97	106.47	106.85	106.70
10	104.15	104.32	104.29	104.92	104.60	105.09	105.61	105.94	105.89	106.32	106.87	106.90
11	104.36	104.34	104.26	104.94	104.53	105.04	105.64	105.95	105.92	106.22	106.90	106.89
12	104.72	104.75	104.35	104.92	104.32	105.07	105.65	105.97	106.06	106.19	106.87	106.63
13	104.79	104.85	104.40	104.85	104.17	105.17	105.69	106.02	106.14	106.29	106.75	106.55
14	104.59	104.77	104.65	104.76	104.37	105.19	105.75	106.09	106.17	106.27	106.60	106.58
15	104.34	104.70	104.99	104.72	104.32	105.19	105.76	106.10	106.12	106.24	106.40	106.59
16	104.24	104.63	105.20	104.62	104.59	105.19	105.76	106.09	106.12	106.49	106.42	106.66
17	104.50	104.66	105.00	104.89	104.58	105.27	105.76	106.07	106.14	106.53	106.53	106.49
18	104.55	104.65	104.72	104.90	104.51	105.29	105.79	106.09	106.12	106.62	106.60	106.47
19	104.53	104.56	104.39	104.97	104.52	105.34	105.79	106.09	106.12	106.57	106.51	106.59
20	104.47	104.49	104.42	105.02	104.58	105.35	105.81	106.06	106.05	106.51	106.56	106.65
21	104.44	104.65	104.65	104.95	104.75	105.37	105.79	106.07	106.09	106.45	106.67	106.60
22	104.43	104.76	104.97	104.88	104.79	105.42	105.77	106.17	106.17	106.51	106.68	106.47
23	104.63	104.60	104.70	104.80	104.79	105.45	105.72	106.19	106.25	106.65	106.73	106.44
24	104.66	104.39	104.79	104.77	104.84	105.42	105.69	106.12	106.27	106.69	106.71	106.47
25	104.69	104.55	104.82	104.72	104.82	105.44	105.67	105.97	106.25	106.64	106.78	106.55

## 45--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	104.65	104.46	104.80	104.62	104.76	105.47	105.72	105.95	106.17	106.60	106.85	106.59
27	104.61	104.31	104.70	104.52	104.70	105.46	105.74	106.00	106.07	106.55	106.67	106.53
28	104.67	104.29	104.67	104.42	104.62	105.41	105.82	106.04	106.16	106.39	106.56	106.35
29	104.61		104.62	104.44	104.68	105.41	105.87	105.93	106.26	106.32	107.08	106.30
30	104.60		104.64	104.49	104.82	105.51	105.97	105.82	106.34	106.50	107.26	106.59
31	104.66		104.62		104.85		106.01	105.86		106.63		106.55

46. U. S. Geol. Survey. Near Ensley. Drilled observation artesian well in sand, diameter 4 inches, depth 239 feet. Land-surface datum is 131.52 feet above msl. Highest water level 56.45 below lsd, Sept. 23, 1948; lowest 76.80 below lsd, Feb. 18, 1953. Records available: 1939-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.05	.....	67.39	.....	67.98	68.64	69.52	70.46	71.41	.....	.....	.....
2	69.82	67.93	67.45	.....	67.97	68.60	69.58	70.45	71.49	.....	73.50	.....
3	69.72	67.64	67.52	.....	67.92	68.61	69.59	70.49	71.51	.....	73.60	.....
4	.....	67.57	67.71	.....	67.97	68.71	69.58	70.55	71.57	.....	73.42	.....
5	.....	67.58	67.67	.....	68.00	68.84	69.58	70.57	.....	72.62	73.49	.....
6	.....	67.59	67.59	67.81	68.02	68.90	69.59	70.54	.....	72.65	73.55	.....
7	.....	.....	67.58	67.78	68.01	68.90	69.62	70.53	71.71	72.72	73.59	.....
8	.....	.....	67.54	67.77	68.05	68.90	69.62	70.56	71.70	72.87	.....	.....
9	.....	67.59	67.39	67.79	68.10	68.90	69.64	70.62	71.69	.....	.....	.....
10	.....	67.59	67.30	67.84	68.17	68.92	69.69	70.69	71.67	.....	.....	.....
11	.....	.....	67.25	67.86	68.14	68.89	69.75	70.74	71.69	.....	.....	.....
12	.....	67.65	67.26	67.84	68.02	68.90	69.78	70.77	71.76	72.64	.....	.....
13	.....	67.75	67.28	67.82	67.94	68.97	69.83	70.83	71.87	72.76	.....	.....
14	.....	67.72	67.39	67.78	68.07	69.00	69.89	70.90	71.92	72.77	.....	74.55
15	.....	.....	.....	67.77	68.24	68.98	69.91	70.94	71.92	72.80	.....	74.57
16	.....	.....	.....	67.65	68.30	68.99	69.94	70.97	72.02	72.97	.....	74.59
17	.....	.....	.....	67.81	68.29	69.06	69.96	70.99	72.05	73.10	.....	74.57
18	.....	.....	.....	67.85	68.30	69.09	70.00	71.04	72.16	.....	.....	74.58
19	.....	.....	.....	.....	68.28	69.12	70.01	71.06	72.80	.....	.....	74.67
20	.....	.....	.....	67.93	68.32	.....	70.05	71.05	.....	.....	.....	.....
21	.....	.....	.....	67.89	68.42	.....	70.07	71.10	.....	.....	.....	.....
22	.....	.....	.....	67.87	68.46	69.27	70.08	71.23	.....	73.16	.....	.....
23	.....	.....	.....	67.87	68.47	69.28	70.09	71.31	.....	73.24	.....	.....
24	.....	67.29	.....	67.89	68.49	69.28	70.07	71.31	.....	73.24	.....	.....
25	.....	67.34	.....	67.91	68.55	69.29	70.08	71.27	.....	.....	.....	.....
26	.....	67.28	.....	67.89	68.52	69.33	70.12	71.27	.....	.....	.....	.....
27	.....	67.25	.....	67.85	68.49	69.33	70.23	71.30	.....	.....	.....	.....
28	68.08	67.19	.....	67.81	68.44	69.33	70.31	71.34	.....	.....	.....	.....
29	68.06	.....	.....	67.84	68.47	69.36	70.36	71.32	.....	.....	.....	.....
30	68.02	.....	.....	67.89	68.56	69.42	70.45	71.28	.....	73.27	.....	.....
31	.....	.....	.....	.....	68.62	.....	70.49	71.31	.....	73.38	.....	.....

60. U. S. Geol. Survey. South end of H St., Pensacola. Drilled observation artesian well in sand, diameter 4 inches, depth 178 feet. Land-surface datum is about 6.94 feet above msl. Highest water level 4.40 below lsd, May 11, 1949; lowest 13.79 below lsd, May 3, 1940. Record available: 1940-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	5.82	5.46	5.72	6.67	7.56	7.88	7.63	8.17	8.13	8.02	7.49
2	....	5.82	5.46	5.73	6.72	7.57	7.90	7.64	8.20	8.14	8.03	7.48
3	....	5.83	5.46	5.74	6.79	7.59	7.92	7.65	8.23	8.12	8.03	7.48
4	....	5.84	5.49	5.74	6.80	7.62	....	7.66	8.26	8.10	8.01	7.47
5	5.28	5.83	5.51	5.77	6.85	7.66	....	7.68	8.28	8.09	8.00	7.37
6	5.29	5.80	5.54	5.80	6.89	7.69	7.97	7.70	8.30	8.09	8.00	7.23
7	5.32	5.78	5.55	5.82	6.94	7.71	7.97	7.72	8.32	8.10	....	7.23
8	5.34	5.67	5.59	5.84	6.99	7.74	7.99	7.72	8.32	8.10	....	7.22
9	5.35	5.63	5.60	5.87	7.03	7.77	7.99	7.71	8.34	8.10	8.02	7.20
10	5.36	5.64	5.59	5.89	7.08	7.80	7.98	7.73	8.35	8.10	8.01	7.17
11	5.36	5.64	5.58	5.90	7.13	7.84	7.97	7.75	8.37	8.09	8.00	7.16
12	5.38	5.64	5.56	5.92	7.18	7.87	7.92	7.77	8.38	8.08	7.98	7.15
13	5.41	5.65	5.54	5.94	7.20	7.88	7.89	7.80	8.40	8.08	7.93	7.12
14	5.44	5.64	5.53	5.95	7.23	7.89	7.89	7.82	8.42	8.08	7.84	7.13
15	5.46	5.65	5.54	5.96	7.26	7.88	7.90	7.83	8.43	8.08	7.69	7.14
16	5.47	5.59	5.56	6.01	7.28	7.87	7.90	7.84	8.44	8.09	7.63	7.15
17	5.48	5.58	5.60	6.08	7.32	7.87	7.89	7.86	8.43	8.08	7.64	....
18	5.51	5.59	5.62	6.14	7.34	7.87	7.83	7.88	8.37	8.07	7.64	....
19	5.54	5.59	5.64	6.19	7.37	7.86	7.73	7.90	8.27	8.07	7.64	....
20	5.57	5.58	5.64	6.21	7.40	7.82	7.72	7.94	8.15	8.08	7.63	....

## 60--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	5.60	5.56	5.65	6.27	7.43	7.82	7.73	7.96	8.12	8.09	7.63	7.25
22	5.63	5.53	5.66	6.32	7.46	7.82	7.74	7.97	8.11	8.09	7.62	7.25
23	5.66	5.56	5.68	6.37	7.48	7.83	7.75	7.98	8.11	8.10	7.61	7.26
24	7.69	5.55	5.69	6.41	7.52	7.84	7.77	7.99	8.11	8.10	7.60	7.26
25	....	5.55	5.70	6.44	7.53	7.85	7.78	8.01	8.12	8.07	7.60	7.26
26	5.74	5.53	5.72	6.48	7.54	7.86	7.77	8.03	8.11	8.06	7.60	7.25
27	5.75	5.48	5.73	6.52	7.55	7.86	7.77	8.05	8.11	8.06	7.60	7.23
28	5.77	5.48	5.74	6.54	7.55	7.85	7.75	8.07	8.12	8.06	7.57	7.23
29	5.79		5.72	6.58	7.55	7.85	7.69	8.09	8.13	8.06	7.50	7.22
30	5.81		5.72	6.62	7.55	7.86	7.64	8.11	8.13	8.06	7.49	7.22
31	5.82		5.72		7.56		7.63	8.15		8.06		7.22

60-A. U. S. Geol. Survey. H St., Pensacola. Drilled observation water-table well in sand, diameter 4 inches, depth 18 feet. Land-surface datum is 7.20 feet above msl. Highest water level 3.04 below lsd, Apr. 26, 1944; lowest 7.39 below lsd, Nov. 17, 1952. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	4.67	Apr. 5	5.67	July 5	6.47	Oct. 4	5.84
11	4.94	12	5.92	12	6.45	11	6.19
18	5.22	19	6.00	19	6.18	18	6.52
25	5.40	26	5.92	26	6.02	25	6.31
Feb. 1	5.46	May 3	5.56	Aug. 2	6.27	Nov. 1	6.50
8	5.71	10	6.13	9	6.15	8	6.68
15	5.58	17	6.12	16	6.19	15	5.98
22	5.62	24	6.21	23	6.04	22	6.70
Mar. 1	5.58	31	5.94	30	6.35	29	6.47
8	6.98	June 7	6.36	Sept. 6	6.18	Dec. 6	6.49
15	5.72	14	6.16	13	6.08	13	6.42
22	5.79	21	6.23	20	5.87	20	6.93
29	5.66	28	6.29	27	6.18	27	6.71

62. U. S. Geol. Survey. Pensacola. Drilled observation artesian well in sand, diameter 6 inches, depth 142 feet. Land-surface datum is 13.95 feet above msl. Highest water level 6.05 below lsd, Mar. 30, 1949; lowest 23.59 below lsd, Oct. 30, 1954. Records available: 1940-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.03	19.14	19.24	19.84	20.40	20.72	21.59	21.62	22.70	23.45	23.38	22.42
2	19.01	19.15	19.23	19.86	20.43	20.77	21.65	21.56	22.93	23.48	23.38	22.38
3	18.36	19.17	19.25	19.88	20.50	20.83	21.69	21.60	23.19	23.50	23.41	22.40
4	18.77	19.18	19.28	19.80	20.50	20.89	21.72	21.67	23.26	....	23.42	22.40
5	18.75	19.18	19.33	19.85	20.54	20.95	21.74	21.74	23.29	23.34	23.43	22.43
6	18.78	19.19	19.32	19.87	20.59	20.99	21.74	21.78	23.31	23.36	23.42	22.41
7	18.81	18.97	19.33	19.92	20.65	21.09	21.75	21.80	23.31	23.38	23.41	22.45
8	18.84	18.74	19.38	19.95	20.72	21.10	21.77	21.82	23.32	23.39	23.10	22.50
9	18.86	18.78	19.39	19.98	20.77	21.15	21.78	21.82	23.34	23.40	23.00	22.56
10	18.83	18.87	19.42	20.00	20.84	21.20	21.76	21.82	23.34	23.41	23.02	22.60
11	18.83	18.96	19.43	20.03	20.89	21.24	21.75	21.86	....	....	23.02	22.64
12	18.85	19.03	19.45	20.04	20.97	21.25	21.68	21.91	....	....	23.25	23.00
13	18.81	18.98	19.46	20.05	21.02	21.25	21.66	21.97	....	....	23.27	22.96
14	18.88	19.13	19.47	20.05	21.04	21.22	21.69	22.01	23.39	23.30	22.82	22.68
15	18.93	19.17	19.60	20.06	20.84	21.23	21.73	22.04	23.41	23.32	22.50	22.71
16	18.95	19.21	19.62	20.08	20.65	21.25	21.74	22.07	23.38	23.33	22.35	22.77
17	18.95	19.24	19.66	20.10	20.67	21.28	21.70	22.07	23.34	23.32	22.32	22.82
18	18.95	....	19.72	20.12	20.72	21.31	21.64	22.11	23.32	23.19	22.22	22.70
19	18.96	....	19.75	20.17	20.78	21.31	21.51	22.17	23.25	23.19	22.25	22.53
20	18.99	....	19.77	20.18	20.83	21.27	21.52	22.23	23.19	23.25	22.22	....
21	19.01	....	19.77	20.20	20.88	21.27	21.57	22.27	23.20	23.31	21.90	22.60
22	19.04	....	19.78	20.24	20.92	21.26	21.62	22.30	23.22	23.36	21.84	22.66
23	19.07	19.18	19.78	20.28	20.95	21.30	21.67	22.32	23.25	23.42	22.00	22.70
24	19.09	19.20	19.82	20.32	21.00	21.36	21.68	22.32	23.30	23.46	22.11	22.75
25	19.07	19.23	19.84	20.35	21.04	21.40	21.62	22.35	23.34	23.46	22.19	22.72
26	19.06	19.25	19.86	20.40	21.08	21.44	21.65	22.39	....	23.48	22.25	22.58
27	19.08	19.27	19.89	20.27	21.10	21.45	21.65	22.44	....	23.52	22.28	22.47
28	19.08	19.27	19.89	20.18	21.08	21.45	21.64	22.50	23.37	23.55	22.28	22.47
29	19.10		19.84	20.25	21.01	21.49	21.63	22.53	23.40	23.57	22.28	22.45
30	19.15		19.85	20.34	21.02	21.52	21.61	22.56	23.42	23.59	22.33	22.42
31	19.14		19.84		20.78		21.61	22.61		23.50		22.43

62-A. U. S. Geol. Survey. Pensacola. Drilled observation water-table well in sand, diameter 4 inches, depth 18 feet. Land-surface datum is 13.95 feet above msl. Highest water level 9.03 below lsd, July 16, 1940; lowest 13.10 below lsd, Feb. 20, 1951. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	10.57	Apr. 5	12.42	July 5	12.90	Oct. 4	12.67
11	10.76	12	12.44	12	12.90	11	12.67
18	10.73	19	12.48	19	12.86	18	12.52
25	10.17	26	12.54	26	12.85	25	12.56
Feb. 1	11.40	May 3	12.53	Aug. 2	12.74	Nov. 1	12.52
8	11.63	10	12.44	9	12.47	8	12.55
15	11.73	17	12.46	16	12.40	15	12.97
22	12.00	24	11.46	23	12.60	22	12.86
Mar. 1	12.11	31	12.41	30	12.66	29	12.81
8	12.27	June 7	12.56	Sept. 6	12.77	Dec. 6	12.93
15	12.36	14	12.69	13	12.66	13	12.80
22	12.43	21	12.77	20	12.42	20	12.88
29	12.42	28	12.91	27	12.72	27	12.97

74. Chemstrand Corp. Sec. 30, T. 1 N., R. 30 W. Drilled semiartesian observation well in sand, diameter 4 to 2½ inches, depth 352 feet, screen 260-270, 340-350. Highest water level 76.20 below lsd, Apr. 4, 1952; lowest 84.44 below lsd, Dec. 23, 1954. Records available: 1951-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.17	78.68	78.68	80.44	80.68	81.46	81.78	82.40	82.61	83.22	.....	84.10
2	78.17	78.62	78.69	80.40	80.66	81.48	81.81	82.40	82.54	83.24	84.01	84.02
3	78.14	78.54	78.68	80.30	80.59	81.48	82.01	82.41	82.87	83.27	84.07	84.01
4	78.11	78.60	78.69	80.38	80.54	81.50	82.01	82.43	82.87	83.29	83.92	83.90
5	78.08	78.64	78.65	80.50	80.50	81.53	81.98	82.33	82.92	83.30	83.91	83.72
6	78.18	78.67	78.62	80.64	80.48	81.60	81.96	82.20	82.90	83.25	83.92	83.67
7	78.21	78.67	78.72	80.70	80.59	81.66	81.98	82.12	82.76	83.25	83.94	83.80
8	78.29	78.69	78.78	80.47	.....	81.74	82.02	82.04	82.58	83.28	84.09	83.87
9	78.29	78.70	78.70	.....	80.64	81.74	81.97	82.07	82.48	83.35	84.16	83.94
10	78.20	78.72	78.80	80.01	80.65	81.74	81.93	82.18	82.53	83.34	84.12	84.08
11	78.14	78.71	79.09	80.27	80.73	81.62	81.92	82.25	82.63	83.31	84.12	84.20
12	78.30	78.74	79.28	80.33	80.75	81.62	81.96	82.30	82.75	83.33	84.10	84.22
13	78.40	78.79	79.32	80.40	80.80	81.72	82.02	82.35	82.88	83.30	84.08	84.14
14	78.45	78.78	79.24	80.42	80.90	81.72	82.03	82.40	83.00	83.30	83.95	84.14
15	78.40	78.80	79.42	80.38	.....	81.68	81.96	82.40	83.04	83.30	83.80	84.21
16	78.30	78.90	79.60	80.32	.....	81.68	81.97	82.44	83.03	83.31	83.70	84.28
17	78.34	78.89	79.64	80.50	.....	81.77	81.93	82.46	82.92	83.32	83.70	84.24
18	78.42	78.89	79.88	80.69	.....	81.85	82.00	82.57	82.95	83.36	83.70	84.22
19	78.44	78.92	79.98	80.85	.....	81.77	82.06	82.43	83.08	.....	83.70	84.27
20	78.46	78.89	80.00	80.92	81.33	81.70	82.17	82.24	83.07	.....	83.79	84.35
21	78.45	78.89	80.30	80.72	81.46	81.64	82.23	82.21	83.08	83.38	83.90	84.40
22	78.50	78.98	80.41	80.51	81.30	81.60	82.30	82.24	83.21	83.58	83.95	84.43
23	78.60	79.02	80.30	80.30	81.20	81.63	82.34	82.40	83.27	83.76	84.01	84.44
24	78.61	78.97	79.90	80.18	81.15	81.74	82.34	82.45	83.31	83.63	84.01	84.41
25	78.61	78.90	79.62	80.03	80.92	81.70	82.31	82.44	83.31	83.68	83.99	84.34
26	78.58	78.82	79.50	80.00	80.87	81.68	82.32	82.41	83.30	83.79	83.90	84.30
27	78.57	78.83	79.58	80.28	81.05	81.70	82.33	82.40	83.29	83.81	83.90	84.21
28	78.75	78.56	79.81	80.56	81.16	81.76	82.30	82.40	83.25	83.85	83.84	84.11
29	78.80		80.01	80.73	81.20	81.86	82.33	82.34	83.19	83.83	84.01	84.08
30	78.74		80.15	80.72	81.26	81.78	82.36	82.34	83.16	83.90	84.11	84.10
31	78.70		80.30		81.40		82.38	82.40		83.94		84.14

### Flagler County

14. W. E. Kudna. NE¼SW¼ sec. 10, T. 12 S., R. 30 E. Drilled unused artesian well in Floridan aquifer, diameter 6 to 4 inches, reported depth 180 feet. Land-surface datum is 21.0 feet above msl. Highest water level 2.7 below lsd, Sept. 1947; lowest 6.52 below lsd, July 9, 1953. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	4.08	Apr. 29	5.92	Aug. 4	5.75	Nov. 2	5.36
Mar. 22	4.68	June 11	5.60	Sept. 16	5.99	Dec. 14	5.00

Gadsden County

6. State of Florida. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 2 N., R. 3 W. Drilled public-supply artesian well in Floridan aquifer, diameter 7 to 5 inches, reported depth 422 feet. Land-surface datum is about 252 feet above msl. Highest water level 135.6 below lsd, May 20, 1952; lowest 154.34 below lsd, Sept. 27, 1954. Records available: 1946-54. Jan. 6, 148.86; Mar. 24, 148.60; May 3, 150.42; July 26, 151.45; Sept. 7, 154.34; Nov. 29, 152.47.

Gulf County

30. Apalachicola Northern RR. Port St. Joe. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, T. 7 S., R. 11 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 563 feet. Highest water level 7.26 below lsd, Dec. 14, 1953; lowest 28.41 below lsd, July 3, 1948. Records available: 1946-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.30	8.71	8.45	8.34	10.00	11.25	11.00	10.14	11.32	9.43	9.21	8.39
2	8.28	8.78	8.51	8.41	10.00	11.29	10.90	10.15	11.08	9.41	9.24	8.28
3	8.02	8.69	8.32	8.50	10.10	11.20	10.85	10.17	10.58	9.67	9.20	8.24
4	8.14	8.68	8.18	8.49	10.12	10.78	10.82	10.24	10.38	9.88	9.18	8.29
5	8.22	8.72	8.40	8.49	9.95	10.54	10.85	10.21	10.60	10.00	9.30	8.17
6	8.26	8.80	8.50	8.44	9.95	10.44	10.95	10.28	10.30	9.98	9.25	7.99
7	8.33	8.76	8.35	8.48	10.05	10.38	11.01	10.19	10.53	9.75	9.55	8.31
8	8.33	8.89	8.36	8.70	10.10	10.50	11.15	10.14	10.19	9.60	9.20	8.32
9	8.23	8.97	8.35	8.75	10.05	10.80	10.86	10.12	10.25	9.63	9.00	8.14
10	8.30	9.02	8.30	8.80	10.10	11.05	10.77	10.09	10.15	9.25	8.98	8.12
11	8.56	9.08	8.36	8.70	10.20	11.10	10.78	10.13	10.13	9.17	9.10	8.14
12	8.53	9.18	8.34	8.61	10.22	10.89	10.72	10.33	10.25	9.02	8.88	8.07
13	8.48	9.20	8.32	8.62	10.11	10.70	10.75	10.55	10.29	8.97	8.72	7.91
14	8.31	8.90	8.28	8.65	10.15	10.80	10.79	10.60	10.55	8.92	8.50	7.93
15	8.22	8.85	8.40	8.81	10.20	10.90	10.70	10.65	10.15	8.88	8.32	7.95
16	8.28	8.98	8.60	9.04	10.20	10.92	10.70	10.98	9.83	8.87	8.33	8.11
17	8.25	8.92	8.59	8.85	10.20	10.99	10.76	11.15	9.71	8.78	8.30	8.11
18	8.40	8.94	8.40	8.78	10.40	10.72	10.52	11.00	9.65	8.75	8.41	8.00
19	8.53	8.90	8.15	8.64	10.41	10.60	10.52	11.07	9.73	8.83	8.40	8.09
20	8.61	8.79	8.15	8.65	10.55	10.60	10.70	11.13	9.58	8.91	8.40	8.10
21	8.63	8.58	8.19	8.70	10.60	10.54	10.80	11.19	9.59	9.15	8.35	8.15
22	8.64	8.65	8.30	8.61	10.65	10.50	10.79	11.08	9.71	9.64	8.20	8.11
23	8.80	8.60	8.46	8.70	10.72	10.50	10.80	11.05	10.15	9.66	8.29	8.08
24	8.67	8.52	8.48	8.80	10.70	10.40	10.62	11.08	.....	.....	8.23	8.05
25	8.71	8.60	8.54	8.78	10.90	10.49	10.60	11.03	9.92	.....	8.24	8.02
26	8.82	8.73	8.54	8.80	11.40	10.60	10.52	10.82	9.67	9.59	8.29	7.92
27	8.88	9.05	8.52	8.90	11.65	10.65	10.42	10.42	9.75	9.40	8.30	7.95
28	8.97	8.40	8.27	8.95	11.72	10.60	10.37	10.37	9.70	9.44	8.05	8.00
29	8.97		8.20	9.00	11.60	10.70	10.28	10.61	9.60	9.61	8.18	7.95
30	8.89		8.25	9.52	11.35	10.89	10.15	10.50	9.48	9.30	8.38	8.31
31	8.64		8.40		11.20		10.21	11.09		9.20		8.51

Hendry County

3. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 48 S., R. 33 E. Jetted observation water-table well in shelly sand, diameter 6 inches, depth 10 feet, cased to 8, gravel packed 5-10. Highest water level 0.90 above lsd, Oct. 2, 1951; lowest 4.37 below lsd, May 18, 1943. Records available: 1941-44, 1950-54.

Daily highest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.08	-1.85	-1.50	-2.20	-0.77	+0.05	-0.32	-0.12	+0.20	+0.03	-0.67	-0.81
2	1.07	1.86	1.66	2.25	1.25	.00	-.38	.22	e. 11	-.01	.68	.77
3	1.07	1.92	1.75	2.30	1.50	+ .07	-.42	.30	e. 08	.22	.71	.85
4	1.09	1.98	1.85	2.39	1.67	-.05	+ .15	.38	e. 05	.32	.70	.87
5	1.13	2.03	1.92	2.45	1.79	.50	-.22	.40	+ .02	.38	.69	.85
6	1.19	2.09	1.34	2.50	1.91	.58	.36	.45	.00	.09	.75	.75
7	1.24	2.12	1.51	2.58	2.02	.65	.16	.52	-.04	.27	.78	.93
8	1.25	1.85	1.66	2.63	2.13	.75	.10	.45	e. 06	.35	.80	.93
9	1.25	2.00	1.28	2.48	2.23	.80	.42	.30	e. 10	.40	.80	.91
10	1.25	2.10	1.48	2.42	2.32	.86	.30	.01	e. 13	.16	.82	.87

## 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	-.65	-2.15	-1.62	-2.45	-2.42	-.92	-.52	-.42	....	-.41	-.74	-.98
12	1.16	2.20	1.68	2.59	2.47	-.95	+.03	+.12	....	.45	.67	.98
13	1.22	2.24	1.72	1.86	.75	+.15	-.43	-.33	....	.43	-.13	.81
14	1.23	2.27	1.78	2.12	1.38	-.30	+.17	+.18	....	.45	+.03	.53
15	1.22	2.30	1.85	2.25	1.53	.14	-.15	-.22	....	.50	-.45	.98
16	1.25	2.33	1.95	2.35	1.65	.10	.26	.01	....	.57	.55	1.02
17	1.32	2.37	1.98	2.46	.91	-.55	.39	.32	....	.55	.57	1.00
18	1.35	2.40	1.99	2.55	1.57	+.26	.45	.39	....	.53	.62	.12
19	1.35	2.43	2.00	2.64	1.73	+.10	.26	.16	....	.52	.65	.82
20	1.37	2.45	1.00	2.69	1.80	-.05	.47	.42	....	.56	.40	.90
21	1.40	2.48	1.42	2.53	1.90	.00	.52	.48	....	.55	.67	.92
22	1.40	2.54	1.62	2.43	1.98	+.23	.55	.32	....	.60	.67	.93
23	1.48	2.60	1.70	2.42	2.09	.06	.15	.55	....	.62	.57	.95
24	1.52	2.61	1.76	2.49	2.18	.25	.47	.51	....	.63	.72	.95
25	1.55	2.64	1.82	2.37	2.27	+.12	-.25	.56	....	.60	.73	.97
26	1.60	2.66	1.87	2.45	2.33	.00	+.15	.63	....	.63	.77	.99
27	1.62	2.69	1.92	2.54	.32	-.08	-.23	-.22	....	.63	.77	1.00
28	1.67	1.15	2.00	2.65	.44	.15	+.22	.00	....	.35	.78	1.02
29	1.73		2.05	2.74	1.06	.20	.02	-.03	-.20	.56	.79	1.05
30	1.77		2.10	2.43	.69	.28	.21	-.34	.28	.62	.70	1.06
31	1.81		2.15		.52		.05	+.16		.65		1.09

e Estimated.

5. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 22, T. 44 S., R. 32 E. Jetted observation water-table well in sand, diameter 6 inches, depth 13 feet, cased to 8, gravel packed 7-13. Highest water level 0.48 above lsd, Oct. 2, 1951; lowest 4.02 below lsd, Apr. 5, 1945. Records available: 1941-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.35	2.73	2.55	2.80	1.28	0.84	1.00	0.33	0.26	0.57	1.92	2.40
2	2.36	2.74	2.58	2.84	1.39	.90	1.05	.40	.27	.53	1.97	2.41
3	2.37	2.76	2.60	2.87	1.50	.35	1.13	.48	.35	.57	2.03	2.43
4	2.40	2.78	2.62	2.06	1.60	.42	1.20	.58	.41	.60	2.07	2.45
5	2.42	2.80	2.65	2.08	1.51	.54	1.26	.68	.48	.65	2.10	2.47
6	2.43	2.83	2.27	2.15	1.72	.45	1.30	.77	.55	.70	2.12	2.33
7	2.46	2.84	2.25	1.55	1.82	.52	1.12	.58	.61	.68	2.17	2.35
8	2.48	2.62	2.30	1.35	1.92	.64	.96	.60	.72	.69	2.21	2.38
9	2.49	2.61	2.18	1.42	2.02	.75	.88	.58	.80	.75	2.22	2.42
10	2.50	2.65	2.17	1.37	2.10	.85	.95	.60	.68	.70	2.25	2.45
11	2.42	2.70	2.24	1.47	2.20	.94	1.01	.69	.48	.76	2.12	2.48
12	2.44	2.76	2.30	1.58	2.25	1.00	.75	.77	.47	.82	2.02	2.50
13	2.48	2.80	2.33	1.67	1.18	.74	.77	.85	.42	.88	1.80	2.40
14	2.51	2.84	2.37	1.78	1.27	.87	.83	.91	.36	.92	1.72	2.37
15	2.53	2.86	2.40	1.88	1.32	.93	.60	.98	.39	.95	1.75	2.40
16	2.54	2.88	2.47	1.99	1.38	.83	.51	.68	.46	1.01	1.82	2.45
17	2.56	2.90	2.52	2.08	1.48	.91	.52	.65	.40	1.07	1.87	2.48
18	2.57	2.92	2.55	2.15	1.60	.53	.60	.71	.43	1.13	1.96	1.99
19	2.58	2.93	2.34	2.22	1.70	.47	.70	.80	.46	1.19	2.04	2.00
20	2.60	2.95	2.19	2.25	1.76	.50	.49	.62	.51	1.23	2.07	2.04
21	2.60	2.96	2.25	1.98	1.85	.60	.52	.51	.57	1.28	2.13	2.09
22	2.50	2.99	2.32	1.88	1.95	.58	.62	.54	.52	1.35	2.20	2.13
23	2.49	3.00	2.39	1.97	2.05	.64	.72	.58	.52	1.41	2.10	2.19
24	2.53	2.96	2.45	2.06	2.13	.70	.75	.62	.57	1.47	2.19	2.22
25	2.58	2.95	2.50	2.16	2.20	.80	.44	.55	.62	1.55	2.22	2.25
26	2.62	2.98	2.55	2.25	2.25	.85	.50	.60	.51	1.62	2.27	2.27
27	2.64	3.01	2.61	2.30	1.14	.74	.57	.69	.40	1.67	2.29	2.28
28	2.66	2.60	2.65	2.37	1.10	.84	.31	.69	.45	1.71	2.31	2.30
29	2.68		2.69	2.42	.93	.95	.30	.74	.50	1.79	2.34	2.32
30	2.70		2.73	1.43	.91	.85	.35	.76	.55	1.69	2.37	2.35
31	2.71		2.76		.85		.30	.35		1.86		2.38

## Highlands County

9. U. S. Geol. Survey. Avon Park Bombing Range. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 7, T. 33 S., R. 31 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 26 feet, cased to 22, gravel packed 19-26. Land-surface datum is 131.00 feet above msl. Highest water level 130.54 above msl, Oct. 9, 1953; lowest 125.27 above msl, Aug. 8, 1950. Records available: 1948-54.



9--Continued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	128.67	128.19	128.05	127.68	129.05	128.70	128.82	129.07	129.12	129.10	128.12	127.96
2	128.63	128.17	128.04	127.67	128.90	129.39	128.75	128.98	129.05	129.32	128.07	127.93
3	128.95	128.15	128.02	127.65	128.78	130.13	129.07	128.90	128.96	129.03	128.05	127.90
4	128.87	128.12	128.02	127.62	128.70	130.35	128.88	129.23	129.17	128.90	128.02	127.87
5	128.80	128.09	128.00	127.60	128.62	129.65	129.27	129.15	128.90	128.85	127.98	127.85
6	128.70	128.06	128.21	128.04	128.53	129.41	129.35	128.98	129.38	128.80	127.96	127.84
7	128.60	128.04	128.42	128.62	128.48	129.24	129.23	128.83	129.10	128.75	127.93	127.81
8	128.55	128.07	128.42	128.64	128.43	129.11	129.88	128.72	128.92	128.72	127.91	127.79
9	128.54	128.05	128.40	128.55	128.36	129.02	129.46	128.87	128.84	128.97	127.89	127.77
10	128.54	128.02	128.40	128.50	128.31	128.93	129.62	130.23	128.77	128.87	127.87	127.75
11	129.22	128.00	128.35	128.45	128.28	128.86	130.00	129.55	128.91	128.81	128.02	127.73
12	129.05	127.98	128.30	128.35	128.23	129.20	129.69	129.28	128.81	128.70	128.02	127.71
13	128.95	127.95	128.25	128.30	128.46	129.02	129.33	130.20	129.50	128.65	128.01	127.72
14	128.88	127.93	128.17	128.24	128.38	128.85	129.21	130.37	129.27	128.85	128.41	127.80
15	128.84	127.91	128.10	128.17	128.28	130.35	129.40	129.73	129.05	128.72	128.42	127.80
16	128.78	127.90	128.05	128.12	128.20	129.73	129.11	129.45	130.25	128.60	128.41	127.78
17	128.65	127.88	128.00	128.08	128.16	129.57	129.01	129.25	129.48	128.52	128.50	127.75
18	128.63	127.86	127.97	128.03	128.15	130.39	129.23	130.24	130.47	128.47	128.48	128.45
19	128.60	127.85	127.95	127.99	128.12	130.45	128.98	129.43	129.65	128.44	128.45	128.45
20	128.55	127.82	128.07	127.95	128.13	129.82	128.90	129.15	130.17	128.40	128.43	128.41
21	128.53	128.08	128.08	128.48	128.09	129.52	128.82	129.03	129.48	128.35	128.38	128.37
22	128.50	128.13	128.00	128.46	128.05	129.41	128.74	129.65	129.90	128.31	128.33	128.32
23	128.45	128.14	127.94	128.43	128.00	129.32	128.69	129.14	129.44	128.28	128.30	128.29
24	128.42	128.16	127.90	128.38	127.97	129.20	128.65	129.05	129.33	128.25	128.25	128.25
25	128.40	128.20	127.88	128.48	127.94	129.10	128.58	128.94	129.28	128.22	128.20	128.21
26	128.36	128.19	127.84	128.43	127.90	129.02	128.98	129.38	129.53	128.20	128.15	128.17
27	128.33	128.14	127.81	128.48	128.08	128.95	128.91	129.16	129.22	128.17	128.11	128.14
28	128.30	128.10	127.79	128.40	128.08	128.86	128.85	129.34	129.10	128.12	128.07	128.10
29	128.27		127.77	129.35	128.40	128.77	128.72	130.13	129.03	128.10	128.03	128.08
30	128.24		127.73	129.23	128.83	128.97	128.60	129.30	128.96	128.26	128.00	128.05
31	128.21		127.71		128.79		128.52	129.23		128.18		128.02

10. U. S. Geol. Survey. About 4 miles southeast of Sebring on Florida Highway 623. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 2, T. 35 S., R. 29 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 45 feet, cased to 41, gravel packed 37-45. Land-surface datum is 118 feet above msl. Highest water level 92.72 above msl, Oct. 14-15, 1948; lowest 84.65 above msl, Apr. 6-8, 1951. Records available: 1948-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	89.89	89.15	88.51	87.90	87.45	86.91	87.93	87.91	88.35	89.19	88.70	88.13
2	89.87	89.12	88.48	87.87	87.44	86.90	87.95	87.90	88.56	89.20	88.68	88.12
3	89.85	89.10	88.46	87.85	87.42	86.88	87.98	87.88	88.75	89.19	88.66	88.10
4	89.82	89.09	88.43	87.83	87.41	86.88	88.00	87.86	88.88	89.19	88.65	88.08
5	89.80	89.06	88.42	87.80	87.40	86.92	88.03	87.85	89.00	89.18	88.63	88.07
6	89.78	89.04	88.41	87.78	87.38	86.97	88.04	87.84	89.09	89.17	88.61	88.04
7	89.75	89.02	88.39	87.76	87.36	87.04	88.05	87.82	89.16	89.15	88.58	88.01
8	89.72	89.00	88.37	87.75	87.34	87.10	88.07	87.80	89.22	89.14	88.56	87.98
9	89.70	88.96	88.35	87.73	87.32	87.17	88.08	87.78	89.27	89.13	88.54	87.97
10	89.68	88.94	88.34	87.71	87.31	87.23	88.09	87.77	89.30	89.12	88.52	87.95
11	89.65	88.92	88.32	87.70	87.30	87.29	88.09	87.76	89.34	89.10	88.50	87.93
12	89.62	88.89	88.30	87.69	87.28	87.33	88.10	87.76	89.36	89.08	88.48	87.91
13	89.60	88.86	88.28	87.68	87.26	87.37	88.10	87.77	89.37	89.07	88.46	87.89
14	89.57	88.84	88.26	87.67	87.24	87.42	88.10	87.77	89.39	89.07	88.45	87.87
15	89.55	88.82	88.23	87.66	87.22	87.46	88.10	87.77	89.40	89.05	88.42	87.84
16	89.54	88.80	88.20	87.65	87.21	87.50	88.10	87.79	89.40	89.01	88.40	87.82
17	89.50	88.79	88.18	87.64	87.18	87.52	88.09	87.80	89.40	88.99	88.38	87.81
18	89.47	88.75	88.17	87.63	87.16	87.55	88.09	87.82	89.40	88.97	88.36	87.79
19	89.45	88.73	88.16	87.61	87.15	87.60	88.08	87.84	89.38	88.95	88.35	87.77
20	89.42	88.71	88.15	87.60	87.13	87.62	88.07	87.86	89.35	88.94	88.32	87.75
21	89.40	88.68	88.13	87.58	87.11	87.65	88.05	87.87	89.32	88.93	88.30	87.73
22	89.38	88.66	88.10	87.57	87.09	87.68	88.03	87.88	89.29	88.90	88.28	87.71
23	89.35	88.64	88.08	87.56	87.07	87.70	88.02	87.89	89.25	88.88	88.26	87.70
24	89.33	88.63	88.05	87.55	87.05	87.75	88.01	87.91	89.21	88.86	88.25	87.69
25	89.30	88.60	88.04	87.53	87.03	87.77	88.00	87.92	89.18	88.85	88.23	87.68

## 10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	89.28	88.58	88.02	87.51	87.01	87.80	87.96	87.92	89.15	88.84	88.20	87.65
27	89.25	88.56	88.00	87.50	87.00	87.83	87.95	87.92	89.15	88.82	88.18	87.63
28	89.23	88.55	87.98	87.49	86.98	87.86	87.93	87.93	89.15	88.78	88.16	87.61
29	89.21		87.96	87.48	86.95	87.88	87.92	88.00	89.16	88.77	88.15	87.60
30	89.18		87.94	87.46	86.94	87.91	87.91	88.08	89.17	88.75	88.14	87.57
31	89.16		87.91		86.92		87.91	88.20		88.72		87.55

11. U. S. Geol. Survey. On Florida Highway 66, 3.1 miles northwest of Istokpoga Canal. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, T. 35 S., R. 31 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 16 feet, cased to 13, gravel packed 10-16. Land-surface datum is 50.30 feet above msl. Highest water level 50.30 above msl, Oct. 9, 1953; lowest 45.10 above msl, Apr. 25, 1950. Records available: 1948-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.29	47.77	47.52	47.08	47.28	48.25	49.20	.....	48.39	48.77	48.12	48.15
2	48.27	47.75	47.47	47.05	47.32	49.60	48.87	.....	48.25	49.38	.....	48.09
3	48.31	47.71	47.43	47.05	47.35	49.87	48.97	.....	48.15	49.00	.....	48.04
4	48.25	47.67	47.40	47.03	47.24	50.00	48.65	.....	48.08	48.83	.....	47.99
5	48.24	47.63	47.33	47.00	47.15	49.60	48.97	.....	48.32	48.72	.....	47.94
6	48.22	47.60	47.61	47.00	47.08	49.13	49.35	.....	48.11	48.66	.....	47.92
7	48.13	47.58	47.74	47.85	47.05	48.85	49.05	.....	48.29	49.20	.....	48.09
8	48.10	47.68	47.72	48.13	47.00	48.75	49.30	.....	48.05	48.92	.....	47.98
9	48.17	47.63	47.77	48.05	46.97	48.57	49.21	.....	47.97	49.38	.....	47.93
10	48.15	47.58	47.78	47.95	46.95	48.47	48.95	48.40	47.86	49.12	.....	47.89
11	48.64	47.55	47.70	47.87	46.90	48.35	49.38	48.29	47.81	49.59	.....	47.82
12	48.42	47.51	47.64	47.80	46.89	48.40	49.50	48.20	47.78	49.16	.....	47.80
13	48.35	47.49	47.60	47.72	46.92	48.28	49.28	48.10	47.75	48.98	.....	47.80
14	48.33	47.47	47.52	47.64	46.85	48.20	49.07	48.06	47.80	49.26	.....	47.98
15	48.32	47.45	47.43	47.58	46.83	49.87	49.55	48.00	47.72	48.89	.....	47.88
16	48.23	47.44	47.35	47.52	46.80	49.50	49.13	47.96	47.67	48.69	.....	47.82
17	48.15	47.42	47.31	47.44	46.78	49.27	48.87	47.90	47.83	48.58	.....	e47.78
18	48.13	47.40	47.30	47.39	46.75	49.94	48.70	47.86	49.52	48.50	.....	e48.63
19	48.10	47.39	47.29	47.34	46.70	49.75	48.56	47.80	49.61	48.45	.....	e48.53
20	48.07	47.37	47.48	47.31	46.70	49.25	48.50	47.78	49.18	48.38	.....	48.44
21	48.05	47.60	47.43	47.29	46.67	48.96	48.43	47.75	48.96	48.33	.....	48.36
22	48.03	47.63	47.36	47.26	46.63	48.86	48.33	47.70	48.88	48.28	.....	48.30
23	48.00	47.55	47.30	47.22	46.60	48.78	48.23	47.67	48.83	48.23	.....	48.25
24	47.95	47.53	47.25	47.30	46.57	49.74	48.97	47.63	48.76	48.20	.....	48.23
25	47.94	47.68	47.23	47.41	46.53	49.31	48.62	47.60	48.99	48.18	.....	48.21
26	47.92	47.64	47.21	47.37	46.52	48.97	48.55	47.58	49.17	48.15	.....	48.18
27	47.90	47.60	47.20	47.30	46.77	48.75	48.99	47.56	49.45	48.13	.....	48.16
28	47.86	47.58	47.18	47.23	46.88	48.57	49.16	48.30	49.17	48.13	.....	48.11
29	47.83		47.15	47.18	47.60	48.44	48.81	48.55	49.02	48.10	.....	48.08
30	47.81		47.13	47.13	47.79	49.60	48.58	48.40	48.85	48.45	.....	48.04
31	47.79		47.10		48.22		.....	48.47		48.22		48.01

e Estimated.

12. U. S. Geol. Survey. On Florida Highway 66 near Fort Bassinger. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 36 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18, gravel packed 15-21. Land-surface datum is 45.60 feet above msl. Highest water level 45.88 above msl, Oct. 9, 1953; lowest 38.97 above msl, June 5, 1950. Records available: 1949-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.10	42.49	42.45	41.95	43.30	44.28	43.12	43.18	44.25	44.10	42.98	43.14
2	43.10	42.48	42.36	41.90	43.80	45.24	43.05	43.14	43.90	44.65	42.87	43.10
3	43.18	42.45	42.31	41.89	44.15	45.47	43.00	43.06	43.64	44.12	42.76	43.03
4	43.08	42.41	42.26	41.87	43.79	45.59	42.95	43.00	44.39	43.67	42.73	42.99
5	43.05	42.38	42.21	41.84	43.47	45.04	42.90	42.95	43.69	43.40	42.70	42.97
6	42.99	42.35	42.78	41.82	43.25	44.73	43.10	42.86	43.50	43.32	42.67	43.08
7	42.95	42.33	42.86	42.62	43.07	45.02	43.86	42.80	43.35	43.25	42.63	42.88
8	42.93	42.52	42.72	42.58	42.95	44.32	44.52	43.88	43.25	43.15	42.60	42.86
9	43.25	42.40	42.89	42.45	42.82	43.96	44.05	44.73	43.17	44.10	42.57	42.83
10	43.10	42.35	42.80	42.40	42.74	43.70	43.69	44.45	43.09	45.25	42.50	42.77
11	43.02	42.32	42.72	42.31	42.67	43.50	44.75	45.13	43.03	44.76	42.77	42.75
12	42.89	42.30	42.63	42.25	42.61	44.30	45.25	44.63	44.11	44.50	42.66	42.73
13	42.87	42.28	42.58	42.19	43.10	43.72	44.61	44.30	44.13	44.22	42.73	43.43
14	42.87	42.26	42.51	42.18	42.78	43.43	45.07	44.91	43.99	44.53	45.10	43.20
15	42.87	42.24	42.41	42.06	43.07	43.66	45.10	45.22	43.60	43.85	44.67	43.04

## 12--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
18	42.89	42.23	42.31	42.02	42.90	43.41	45.33	44.70	43.46	43.50	44.87	42.91
17	42.80	42.22	42.27	41.93	42.73	43.30	44.65	44.36	43.33	43.37	44.93	42.85
18	42.80	42.20	42.21	41.85	42.59	45.18	44.30	44.80	44.65	43.30	44.35	44.15
19	42.80	42.18	42.45	41.80	42.52	45.22	43.90	44.04	44.71	43.24	44.10	43.70
20	42.78	42.17	42.37	41.82	42.50	44.65	45.08	44.52	44.04	43.18	44.75	43.44
21	42.77	42.68	42.28	41.84	42.43	44.35	44.59	43.78	43.65	43.10	43.78	43.31
22	42.75	42.53	42.18	41.78	42.38	44.80	44.14	44.46	44.07	43.02	43.66	43.21
23	42.70	42.47	42.15	41.76	42.33	44.30	43.68	43.75	44.03	42.97	44.38	43.12
24	42.68	42.58	42.12	41.77	42.28	44.00	44.90	43.50	43.55	42.94	43.58	43.07
25	42.65	42.48	42.10	41.75	42.25	43.70	44.27	43.40	43.88	42.93	43.47	43.02
26	42.63	42.42	42.07	42.05	42.21	43.50	44.00	43.55	43.97	42.87	43.37	42.97
27	42.62	42.36	42.05	41.95	43.35	43.37	43.70	43.85	43.82	42.85	43.32	42.93
28	42.58	42.52	42.04	41.90	43.08	43.26	43.54	44.75	43.87	42.82	43.25	42.89
29	42.55		42.02	41.84	43.81	43.18	43.40	45.14	43.50	42.80	43.21	42.84
30	42.53		42.00	41.82	44.69	43.30	43.31	44.60	43.28	43.70	43.15	42.79
31	42.51		41.98		44.52		43.25	44.48		43.11		42.76

13. U. S. Geol. Survey. On Florida Highway 70, 0.5 mile west of Kissimmee River bridge. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 26, T. 37 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 20 feet, cased to 16, gravel packed 11-20. Land-surface datum is 29 feet above msl. Highest water level 29.40 above msl, Oct. 2, 1951; lowest 23.23 above msl, Apr. 6, 1951. Records available: 1948-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.20	25.51	25.60	24.97	24.51	27.68	27.14	27.85	28.73	28.80	26.61	26.48
2	26.18	25.50	25.59	24.93	24.50	28.12	26.98	28.62	29.00	28.87	26.57	26.45
3	26.16	25.48	25.55	24.90	24.47	28.73	26.92	28.08	28.58	28.65	26.50	26.38
4	26.13	25.46	25.48	24.87	24.46	29.01	26.83	27.74	28.72	28.40	26.46	26.32
5	26.10	25.43	25.42	24.85	24.45	28.88	27.83	27.52	28.28	28.21	26.43	26.27
6	26.07	25.39	25.62	24.82	24.43	28.63	28.05	27.33	28.80	28.12	26.38	26.36
7	26.03	25.36	25.71	24.80	24.40	28.44	28.47	27.20	28.33	28.05	26.33	26.25
8	26.00	25.53	25.72	24.89	24.37	28.16	28.61	27.12	28.03	27.87	26.30	26.22
9	26.00	25.53	25.81	24.90	24.33	27.89	28.27	27.20	27.82	28.58	26.27	26.19
10	26.00	25.48	25.82	24.87	24.31	27.70	28.03	27.98	27.57	28.20	26.25	26.15
11	25.99	25.45	25.80	24.84	24.90	27.48	28.41	27.57	27.40	28.52	26.32	26.12
12	25.96	25.41	25.75	24.80	25.38	27.51	29.13	27.25	29.12	28.07	26.55	26.09
13	25.93	25.35	25.69	24.78	25.61	27.34	28.79	27.08	28.89	27.85	26.70	26.21
14	25.90	25.31	25.66	24.80	25.63	27.21	28.68	27.15	28.67	28.54	27.88	26.25
15	25.88	25.28	25.61	24.75	25.58	27.14	29.05	27.68	28.39	27.97	27.58	26.18
16	25.87	25.27	25.52	24.73	25.50	28.16	28.95	27.35	28.17	27.65	27.50	26.09
17	25.85	25.26	25.47	24.71	25.44	27.59	28.75	27.08	27.95	27.47	27.37	26.06
18	25.83	25.24	25.40	24.68	25.34	28.60	28.46	27.85	28.82	27.37	27.21	26.83
19	25.81	25.22	25.35	24.65	25.24	28.80	28.24	27.46	28.88	27.25	27.10	26.72
20	25.80	25.23	25.45	24.64	25.17	28.53	28.88	27.18	28.56	27.16	27.40	26.60
21	25.78	25.27	25.42	24.62	25.09	28.25	28.68	27.00	28.31	27.09	27.00	26.53
22	25.77	25.28	25.33	24.58	25.06	28.98	28.38	27.25	28.47	27.00	26.93	26.46
23	25.75	25.23	25.25	24.65	24.97	28.77	28.09	27.00	28.88	26.95	27.17	26.38
24	25.73	25.30	25.20	24.68	24.88	28.53	28.73	26.90	28.60	26.91	26.90	26.34
25	25.70	25.32	25.17	24.67	24.85	28.23	28.27	26.86	28.37	26.90	26.83	26.30
26	25.67	25.32	25.13	24.62	24.83	27.99	28.94	26.78	28.42	26.83	26.75	26.25
27	25.65	25.26	25.11	24.58	24.90	27.75	28.86	26.69	28.22	26.78	26.68	26.21
28	25.62	25.57	25.08	24.55	25.20	27.55	28.68	28.14	27.98	26.74	26.62	26.16
29	25.58		25.07	24.54	25.42	27.37	28.44	28.10	28.75	26.66	26.58	26.10
30	25.57		25.05	24.52	25.55	27.28	28.22	27.72	28.28	27.18	26.52	26.06
31	25.54		25.02		26.52		28.02	28.87		26.75		26.03

14. U. S. Geol. Survey. On Florida Highway 25, 0.1 mile south of Florida Highway 70. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 4, T. 38 S., R. 30 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 35 feet, cased to 29, gravel packed 25-35. Land-surface datum is 136 feet above msl. Highest water level 127.56 above msl, Oct. 10, 1953; lowest 114.50 above msl, July 1, 1951. Records available: 1948-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	124.07	123.03	122.22	121.46	120.85	120.36	121.50	122.67	122.22	122.85	122.15	121.65
2	124.03	123.00	122.19	121.43	120.83	120.71	121.48	122.68	122.20	122.88	122.14	121.64
3	124.00	122.98	122.17	121.41	120.81	120.87	121.45	122.67	122.18	122.89	122.12	121.61
4	123.97	122.95	122.12	121.38	120.80	121.40	121.44	122.65	122.15	122.90	122.10	121.59
5	123.94	122.92	122.10	121.35	120.78	121.66	121.43	122.62	122.14	122.88	122.08	121.58

## 14--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	123.90	122.88	122.08	121.35	120.75	121.80	121.41	122.58	122.12	122.86	122.06	121.55
7	123.85	122.86	122.05	121.34	120.73	121.92	121.70	122.53	122.10	122.83	122.03	121.52
8	123.83	122.83	122.04	121.32	120.71	122.02	121.95	122.48	122.09	122.80	122.01	121.50
9	123.80	122.79	122.02	121.30	120.69	122.08	122.07	122.45	122.07	122.78	121.99	121.49
10	123.77	122.76	121.99	121.27	120.67	122.13	122.16	122.60	122.05	122.76	121.97	121.47
11	123.73	122.73	121.97	121.25	120.65	122.14	122.24	122.65	122.02	122.73	121.95	121.45
12	123.68	122.70	121.95	121.23	120.63	122.12	122.27	122.65	122.00	122.70	121.93	121.44
13	123.65	122.65	121.92	121.21	120.62	122.07	122.28	122.63	121.99	122.67	121.91	121.43
14	123.62	122.63	121.90	121.20	120.60	122.02	122.30	122.61	121.97	122.69	121.98	121.40
15	123.60	122.60	121.86	121.17	120.57	121.98	122.34	122.60	121.95	122.60	121.97	121.37
16	123.57	122.58	121.83	121.15	120.55	121.92	122.37	122.58	121.93	122.55	121.95	121.34
17	123.52	122.55	121.81	121.13	120.53	121.87	122.40	122.55	121.98	122.52	121.91	121.33
18	123.50	122.52	121.80	121.10	120.50	121.84	122.43	122.52	122.10	122.50	121.90	121.32
19	123.45	122.50	121.78	121.08	120.49	121.83	122.46	122.50	122.15	122.49	121.88	121.30
20	123.42	122.47	121.75	121.07	120.47	121.79	122.49	122.46	122.18	122.46	121.86	121.29
21	123.39	122.43	121.72	121.05	120.45	121.75	122.50	122.43	122.20	122.43	121.84	121.27
22	123.36	122.40	121.70	121.03	120.43	121.72	122.49	122.40	122.20	122.40	121.83	121.25
23	123.32	122.38	121.68	121.00	120.40	121.70	122.47	122.38	122.18	122.38	121.81	121.23
24	123.30	122.36	121.65	120.98	120.38	121.68	122.45	122.36	122.17	122.35	121.79	121.22
25	123.25	122.33	121.63	120.97	120.37	121.66	122.40	122.35	122.15	122.33	121.77	121.20
26	123.22	122.30	121.60	120.95	120.35	121.64	122.35	122.31	122.24	122.30	121.75	121.18
27	123.20	122.28	121.58	120.93	120.37	121.61	122.31	122.29	122.41	122.29	121.73	121.16
28	123.15	122.26	121.55	120.91	120.33	121.58	122.35	122.28	122.60	122.26	121.72	121.15
29	123.12		121.53	120.89	120.32	121.55	122.53	122.27	122.74	122.25	121.69	121.13
30	123.10		121.50	120.87	120.30	121.52	122.60	122.25	122.81	122.21	121.67	121.11
31	123.06		121.48		120.29		122.64	122.24		122.18		121.09

15. U. S. Geol. Survey. On Florida Highway 25, 0.10 mile north of Highlands-Glades County line. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 32, T. 39 S., R. 30 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 23 feet, cased to 19, gravel packed 18-23. Land-surface datum is 58.50 feet above msl. Highest water level 58.39 above msl, Oct. 2, 1951; lowest 53.76 above msl, June 24, 1950. Records available: 1948-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.16	55.70	e56.33	55.52	e55.28	56.78	.....	56.55	57.67	57.58	56.07	.....
2	56.15	55.69	56.34	55.50	e55.26	57.99	.....	56.42	57.21	58.03	56.02	.....
3	56.14	55.67	56.30	55.48	e55.24	57.65	.....	56.36	56.90	57.45	55.93	.....
4	56.12	55.65	56.19	55.46	e55.22	57.04	.....	56.30	56.75	57.00	55.91	.....
5	56.10	55.62	56.12	55.50	e55.20	56.78	.....	56.25	56.55	56.77	55.88	.....
6	56.08	55.60	56.78	55.37	e55.18	57.79	.....	56.20	56.46	56.70	55.86	.....
7	56.05	55.57	56.58	56.65	e55.16	57.02	56.78	56.15	56.38	56.95	55.83	.....
8	56.02	55.85	56.41	56.48	e55.14	56.68	58.13	56.42	56.31	56.63	55.78	.....
9	56.02	55.83	56.90	56.31	e55.12	56.52	57.83	58.06	56.81	56.54	55.77	.....
10	56.00	55.80	56.57	56.19	e55.10	56.88	57.97	58.00	56.60	56.92	55.76	.....
11	56.19	55.76	56.39	56.06	e55.08	56.70	56.09	58.20	56.35	56.55	55.75	.....
12	56.10	55.70	56.33	55.99	e55.06	56.55	58.16	57.85	56.27	56.47	.....	.....
13	56.02	55.65	56.26	55.93	e55.04	.....	57.89	57.20	56.73	56.37	.....	.....
14	56.00	55.60	56.20	55.86	e55.02	.....	57.95	56.89	56.52	56.40	.....	.....
15	56.00	55.58	56.08	55.81	e55.00	.....	58.15	56.72	56.30	56.29	.....	.....
16	55.98	55.57	56.01	55.75	e54.98	.....	58.01	56.65	58.04	56.23	.....	56.46
17	55.95	55.55	55.98	55.72	e54.96	.....	57.60	56.52	57.70	56.18	.....	56.37
18	55.95	55.54	55.95	55.67	54.90	.....	57.10	56.41	57.32	56.14	.....	57.65
19	55.95	55.52	56.30	55.61	54.89	.....	56.80	56.35	56.90	56.10	.....	57.10
20	55.81	55.86	56.35	55.57	54.87	.....	56.73	56.28	56.68	56.08	.....	56.61
21	55.85	56.17	56.08	55.55	54.83	.....	56.99	56.60	57.15	56.05	.....	56.67
22	55.85	56.20	55.98	55.51	54.80	.....	56.57	56.33	57.85	56.03	.....	56.58
23	55.85	56.22	55.91	55.47	54.77	.....	56.80	56.24	57.96	55.98	.....	56.50
24	55.84	56.25	55.86	55.45	54.76	.....	56.57	56.38	57.44	55.97	.....	56.48
25	55.83	56.27	55.81	55.45	54.74	.....	57.24	56.79	57.93	56.03	.....	56.46
26	55.82	56.29	55.77	55.40	55.23	.....	57.95	56.41	58.06	55.96	.....	56.42
27	55.81	e56.30	55.73	55.36	55.40	.....	58.00	58.05	58.15	55.94	.....	56.41
28	55.78	e56.32	55.69	55.34	55.46	.....	57.96	58.20	57.97	55.93	.....	56.38
29	55.77		55.63	e55.32	55.46	.....	57.45	58.10	57.45	56.10	.....	56.33
30	55.76		55.59	e55.30	55.58	.....	56.95	57.74	57.17	56.52	.....	56.31
31	55.72		55.55		56.33		56.73	58.00		56.16		56.30

e Estimated.

Hillsborough County

13. City of St. Petersburg. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 21, T. 27 S., R. 18 E. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, depth 300 feet. Land-surface datum is 56.09 feet above msl. Highest water level 4.92 below lsd, Sept. 23, 1947; lowest 11.45 below lsd, June 12, 1945. Records available: 1930-35, 1937, 1939-41, 1944-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.48	7.43	7.80	8.26	7.95	7.97	8.00	6.96	6.68	6.60	....	....
2	6.49	7.37	7.86	8.34	7.95	7.95	7.92	6.98	6.75	6.64	....	....
3	6.48	7.35	7.87	8.37	7.95	7.95	7.87	7.06	6.80	6.71	....	....
4	6.45	7.38	7.95	8.38	7.95	7.95	7.80	7.12	6.88	6.75	....	....
5	6.42	7.48	7.93	8.38	8.05	7.89	7.75	7.18	6.90	6.80	....	....
6	6.49	7.56	7.90	8.34	8.10	7.89	7.75	7.21	6.90	6.85	....	....
7	6.60	7.60	7.87	8.24	8.18	7.82	7.74	7.27	6.92	6.96	....	....
8	6.65	7.56	7.85	8.08	8.28	7.84	7.60	7.30	6.97	7.04	....	....
9	6.67	7.55	7.77	8.01	8.40	7.75	7.40	7.34	7.05	7.05	....	....
10	6.64	7.54	7.78	8.01	8.45	7.77	7.31	7.35	7.15	7.04	....	....
11	6.63	7.53	7.83	8.00	8.45	7.85	7.26	7.37	7.27	7.06	....	....
12	6.76	7.64	7.89	7.97	8.43	7.99	7.20	7.44	7.25	7.10	8.14	....
13	6.82	7.74	7.94	7.97	8.25	8.10	7.20	7.52	7.21	7.20	8.11	....
14	6.80	7.75	7.97	8.00	8.16	8.12	7.20	7.57	7.13	7.22	8.05	....
15	6.75	7.73	8.13	8.05	8.14	7.96	7.12	7.59	7.08	7.26	7.83	....
16	6.68	7.73	8.24	8.05	8.10	7.81	7.11	7.59	7.07	....	7.68	....
17	6.80	7.75	8.25	8.10	8.07	7.80	7.15	7.57	7.06	....	7.58	....
18	6.90	7.83	8.21	8.19	8.04	7.75	7.16	7.43	7.05	....	7.54	....
19	6.91	7.91	8.15	8.23	8.08	7.70	7.20	7.30	7.01	....	7.48	....
20	6.94	7.97	8.05	8.25	8.00	7.70	7.26	7.24	7.00	....	7.44	....
21	6.98	7.95	8.04	8.27	7.92	7.72	7.33	7.22	7.01	....	7.50	....
22	7.00	7.94	8.10	8.31	7.95	7.75	7.40	7.16	7.00	....	7.51	....
23	7.10	7.90	8.11	8.33	7.99	7.78	7.42	7.10	6.95	....	7.42	....
24	7.17	7.74	8.10	8.24	8.04	7.76	7.35	7.00	6.88	....	....	....
25	7.20	7.75	8.09	8.07	8.07	7.75	7.26	6.96	6.84	....	....	....
26	7.22	7.75	8.11	7.88	8.12	7.79	7.18	7.00	6.72	....	....	....
27	7.23	7.74	8.10	7.80	8.10	7.80	7.08	6.99	6.55	....	....	....
28	7.25	7.65	8.12	7.78	8.11	7.80	7.00	6.86	6.48	....	....	....
29	7.32	8.12	7.84	8.12	7.84	6.93	6.93	6.75	6.53	....	....	....
30	7.36	8.14	7.90	8.10	7.94	6.92	6.62	6.58	....	....	....	....
31	7.39	8.19	....	8.05	....	6.95	6.64	....	....	....	....	....

30. C. L. Council. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 32, T. 31 S., R. 19 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 500 feet, cased to 34. Land-surface datum is 6.82 feet above msl. Highest water level 13.02 above lsd, Sept. 6, 1950; lowest 1.63 above lsd, May 16, 1952. Records available: 1950-54.

Daily mean water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.54	5.70	7.09	3.52	5.70	....	8.08	9.24	8.91	9.29	8.24	8.19
2	8.78	5.24	6.89	3.62	5.75	....	8.09	9.24	8.96	9.18	8.45	7.71
3	9.18	4.95	6.91	3.55	5.81	....	8.08	9.18	8.95	9.27	8.06	7.20
4	9.21	4.66	6.80	3.60	5.85	....	8.12	9.08	8.86	9.25	7.48	7.20
5	9.25	4.40	6.49	4.20	5.95	....	8.25	9.08	8.74	9.00	7.95	7.40
6	9.23	4.42	6.49	4.55	5.84	....	8.29	9.10	8.71	8.72	8.38	7.99
7	9.98	4.55	6.48	5.30	5.50	....	8.20	9.10	8.68	8.75	8.32	7.88
8	8.60	5.00	6.60	5.55	5.00	....	8.19	9.10	8.80	8.90	7.82	7.88
9	8.59	5.44	6.81	5.44	4.76	....	8.30	9.05	8.83	8.98	7.48	8.09
10	8.76	5.70	7.05	5.36	4.60	....	8.55	8.80	8.65	9.16	7.40	8.06
11	8.96	5.80	7.15	5.28	4.45	....	8.79	8.80	8.39	9.22	7.73	7.77
12	8.75	5.80	7.18	5.26	4.50	....	8.85	8.70	8.10	9.12	7.70	7.68
13	8.48	5.68	7.24	5.10	5.50	....	9.00	8.60	8.14	8.78	7.98	7.96
14	8.50	5.49	7.30	4.98	6.12	....	9.10	8.45	8.55	8.98	8.50	8.61
15	8.83	5.19	6.90	4.88	6.27	....	9.20	8.25	8.84	9.00	8.87	8.67
16	9.18	4.80	6.28	4.78	6.32	....	9.18	8.15	9.04	8.50	9.00	8.53
17	9.20	4.58	5.93	4.60	6.35	7.92	9.20	8.10	9.07	7.76	8.90	8.50
18	9.10	4.60	5.72	4.52	6.39	7.92	9.22	8.24	8.89	7.61	9.00	8.70
19	9.01	4.40	5.30	4.48	6.40	7.92	9.21	8.15	8.95	7.50	9.12	8.80
20	8.84	4.60	5.85	4.20	6.50	7.96	9.20	7.90	9.00	7.68	9.11	8.47
21	8.80	5.20	6.18	4.44	6.68	7.99	9.15	7.87	8.91	7.80	9.07	7.91
22	8.90	5.76	6.15	4.74	6.60	7.99	9.18	8.04	8.92	7.80	9.00	8.21
23	8.69	6.00	6.09	4.82	6.62	8.00	9.15	7.93	9.04	7.56	8.98	8.50
24	8.45	6.51	6.00	5.00	6.55	8.10	9.18	7.85	9.06	7.32	8.87	8.69
25	8.15	6.61	5.90	5.10	6.32	8.18	9.18	8.11	9.13	7.25	8.90	8.77

## 30--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	7.72	6.83	5.38	5.38	....	8.15	9.25	8.30	9.25	6.95	8.62	8.79
27	7.38	6.95	4.60	5.55	....	8.12	9.30	8.36	9.38	6.70	8.40	8.80
28	6.80	7.22	3.90	5.70	....	8.25	9.39	8.42	9.43	6.79	8.50	8.82
29	6.38		3.80	5.85	....	8.13	9.38	8.55	9.42	7.05	8.45	8.88
30	6.20		3.48	5.75	....	7.95	9.28	8.74	9.40	8.08	8.21	8.77
31	5.98		3.45		....		9.21	8.84		8.25		8.59

500. Paul Carter. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 9, T. 32 S., R. 20 E. Wimauma. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 330 feet, cased to 97. Land-surface datum is 87.85 feet above msl. Highest water level 48.25 below lsd, Jan. 11, 1954; lowest 54.01 below lsd, June 5, 1953. Records available: 1951-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.68	49.03	50.61	51.32	51.78	.....	e50.20	.....	49.48	49.27	50.47	50.18
2	48.65	49.03	50.65	51.45	51.68	.....	e50.18	.....	49.52	49.22	50.47	50.07
3	48.60	49.10	50.57	51.68	51.58	.....	e50.17	.....	49.51	49.24	50.50	50.07
4	48.52	49.17	50.62	51.70	51.47	.....	e50.11	.....	49.52	49.23	50.42	50.15
5	48.47	49.35	50.55	51.82	51.42	.....	e50.07	.....	49.53	49.20	50.35	50.17
6	48.47	49.57	50.42	51.85	51.40	.....	e50.05	.....	49.52	49.16	50.37	50.11
7	48.53	49.72	50.38	51.82	51.40	.....	e50.05	.....	49.47	49.18	50.42	50.37
8	48.53	49.82	50.35	51.80	51.43	.....	e50.01	.....	49.42	49.22	50.47	50.47
9	48.47	49.97	50.32	51.82	51.50	.....	e49.96	.....	49.38	49.18	50.45	50.44
10	48.36	50.08	50.23	51.80	51.52	.....	e49.93	.....	49.38	49.13	50.45	50.50
11	48.34	50.15	50.22	51.75	51.56	.....	e49.88	.....	49.41	49.09	50.47	50.53
12	48.57	50.32	50.20	51.67	51.58	.....	e49.85	.....	49.48	49.07	50.48	50.50
13	48.56	50.47	50.19	51.60	51.50	.....	e49.87	.....	49.53	49.07	50.48	50.38
14	48.51	50.52	50.15	51.54	51.59	.....	e49.85	.....	49.54	49.00	50.38	50.32
15	48.38	50.51	50.28	51.51	51.75	.....	e49.82	.....	49.55	48.95	50.33	50.35
16	48.32	50.52	50.42	51.50	51.79	.....	e49.81	.....	49.62	49.15	50.32	50.44
17	48.42	50.47	50.42	51.56	51.79	50.49	e49.77	.....	49.63	49.30	50.32	50.40
18	48.48	50.53	50.36	51.67	51.75	50.45	e49.80	.....	49.61	49.35	50.30	50.35
19	48.46	50.60	50.37	51.72	51.73	50.35	e49.76	.....	49.65	49.37	50.26	50.38
20	48.44	50.70	50.40	51.74	51.67	50.33	e49.73	.....	49.63	49.42	50.20	50.42
21	48.40	50.76	50.52	51.71	51.59	50.35	e49.69	.....	49.58	49.54	50.23	50.41
22	48.37	50.90	50.70	51.74	51.58	e50.39	e49.67	.....	49.52	49.69	50.22	50.38
23	48.46	50.94	50.77	51.80	51.58	e50.35	.....	.....	49.52	49.85	50.16	50.35
24	48.51	50.77	50.84	51.80	51.54	e50.33	.....	.....	49.53	49.96	50.15	50.33
25	48.53	50.80	50.82	51.81	51.50	e50.28	.....	.....	49.47	50.00	50.12	50.39
26	48.56	50.77	50.84	51.84	51.46	e50.24	.....	49.60	49.40	50.07	50.15	50.40
27	48.55	50.70	50.82	51.82	51.41	e50.20	.....	49.59	49.33	50.15	50.08	50.41
28	48.55	50.50	50.84	51.78	51.30	e50.06	.....	49.60	49.32	50.15	50.00	50.31
29	48.65		50.94	51.80	.....	e50.15	.....	49.50	49.35	50.14	50.07	50.28
30	48.73		51.02	51.80	.....	e50.17	.....	49.45	49.32	50.21	50.20	50.30
31	48.83		51.17		.....		.....	49.45		50.36		50.29

e Estimated.

## Holmes County

4. Mrs. D. Hughes. Ponce de Leon. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 27, T. 3 N., R. 17 W. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 187 feet. Land-surface datum is about 64 feet above msl. Highest water level 5.72 above lsd, Nov. 30, 1948; lowest 1.1 above lsd, Nov. 19, 1954. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	+4.80	May 21	+2.80	July 26	+2.23	Oct. 18	+1.40
Feb. 27	+4.03	July 11	+2.86	Sept. 7	+1.75	Nov. 19	+1.1
Apr. 10	+3.60						

7. Charles McAllister. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 36, T. 7 N., R. 14 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 205 feet, cased to 170. Highest water level 8.09 below lsd, Apr. 12, 1949; lowest 14.78 below lsd, Nov. 8, 1954. Records available: 1947-54. Recording gage removed on Nov. 10, 1954.

7--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.27	11.37	11.25	11.09	11.30	11.80	12.64	12.54	13.02	13.80	.....	.....
2	11.21	11.27	11.26	11.12	11.25	11.80	12.65	12.54	13.12	.....	.....	.....
3	11.21	11.22	11.29	11.11	11.22	11.82	12.65	12.57	13.15	.....	14.68	.....
4	11.20	11.26	11.36	11.12	11.25	11.89	12.64	12.63	13.18	13.87	14.59	.....
5	11.15	11.30	11.30	11.16	11.27	11.93	12.56	12.65	13.24	13.88	14.61	.....
6	11.19	11.34	11.26	11.16	11.30	12.01	12.52	12.65	13.25	13.92	14.66	.....
7	11.26	11.37	11.24	11.15	11.32	12.04	12.51	12.65	13.28	14.00	14.69	.....
8	11.27	11.39	11.20	11.15	11.37	12.06	12.49	12.72	13.40	14.07	14.73	.....
9	11.24	11.34	11.15	11.17	11.42	12.07	12.45	12.77	13.32	14.05	14.74	.....
10	11.16	11.33	11.12	11.24	11.46	12.10	12.46	12.82	13.32	14.02	.....	.....
11	11.15	11.34	11.11	11.25	11.46	12.05	12.48	12.87	13.36	14.02	.....	.....
12	11.32	11.47	11.10	11.25	11.44	12.04	12.51	12.83	13.45	14.04	.....	.....
13	11.36	11.52	11.17	11.24	11.38	12.07	12.52	13.00	13.52	14.07	.....	.....
14	11.29	11.50	11.23	11.17	11.48	12.08	12.56	13.07	13.55	14.06	.....	.....
15	11.20	11.47	11.36	11.15	11.56	12.08	12.59	13.12	13.56	.....	.....	.....
16	11.14	11.45	11.42	11.08	11.60	12.10	12.61	13.15	13.57	.....	.....	.....
17	11.27	11.45	11.39	11.15	11.59	12.16	12.61	13.17	13.58	14.25	.....	.....
18	11.30	11.46	11.30	11.17	11.60	12.20	12.61	13.20	13.52	14.27	.....	.....
19	11.28	11.45	11.13	11.20	11.60	12.23	12.61	13.24	13.48	14.27	.....	.....
20	11.27	11.42	11.09	11.24	11.62	12.25	.....	13.26	13.48	14.28	.....	.....
21	11.26	11.40	11.13	11.22	11.70	12.30	.....	13.20	13.47	14.29	.....	.....
22	11.24	11.43	11.15	11.21	11.73	12.34	.....	13.15	13.47	14.34	.....	.....
23	11.35	11.38	11.14	11.22	11.74	12.37	.....	13.12	13.52	14.42	.....	.....
24	11.37	11.23	11.14	11.22	11.82	12.40	.....	13.01	13.60	14.44	.....	.....
25	11.37	11.27	11.13	11.22	11.80	12.43	12.67	12.94	13.59	14.43	.....	.....
26	11.35	11.23	11.15	11.21	11.81	12.45	12.62	12.90	13.58	14.43	.....	.....
27	11.33	11.24	11.12	11.19	11.80	12.46	12.55	12.94	13.60	14.44	.....	.....
28	11.35	11.24	11.07	11.15	11.77	12.46	12.48	12.97	13.60	14.41	.....	.....
29	11.34	.....	11.04	11.20	11.78	12.50	12.48	12.92	13.70	14.40	.....	.....
30	11.33	.....	11.01	11.25	11.82	12.57	12.51	12.90	13.76	14.48	.....	.....
31	11.36	.....	11.02	.....	.....	.....	12.52	12.95	.....	.....	.....	.....

Indian River County

25. U. S. Geol. Survey. On Florida Highway 60, 8 miles east of Yeehaw Junction. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 36, T. 32 S., R. 35 E. Jetted observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 19 feet, cased to 13, gravel packed 11-19. Land-surface datum is 30.0 feet above msl. Highest water level 31.46 above msl, Oct. 18, 1950; lowest 25.92 above msl, July 8, 1953. Records available: 1950-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.62	27.08	26.58	.....	.....	.....	28.45	28.68	28.32	27.71	27.54	27.95
2	27.60	27.06	26.55	.....	.....	.....	28.35	28.52	28.15	28.04	27.46	27.92
3	27.58	27.04	26.52	.....	.....	.....	28.26	28.32	28.00	27.98	27.42	27.85
4	27.56	27.00	26.57	.....	.....	.....	28.15	28.15	27.90	27.88	27.38	27.80
5	27.55	26.98	26.55	.....	.....	.....	28.10	28.00	27.82	27.80	27.36	27.77
6	27.51	26.95	26.75	.....	.....	.....	28.36	27.90	27.75	27.76	27.35	27.82
7	27.45	26.92	26.98	.....	.....	.....	28.38	27.85	27.69	27.75	27.30	27.73
8	27.43	26.92	27.01	.....	.....	.....	28.58	27.95	27.62	27.95	27.25	27.68
9	27.43	26.90	27.08	.....	.....	.....	28.45	27.83	27.60	28.80	27.22	27.65
10	27.42	26.87	27.09	.....	.....	.....	28.30	27.77	27.54	28.85	27.18	27.62
11	27.73	26.85	27.06	.....	.....	.....	28.70	28.54	27.47	28.75	27.80	27.58
12	27.70	26.83	27.02	.....	.....	.....	28.55	28.41	27.45	28.61	27.96	27.55
13	27.63	26.81	26.98	.....	.....	.....	28.76	28.20	28.33	28.51	27.93	28.23
14	27.57	26.78	26.95	.....	.....	.....	28.80	28.09	28.42	28.57	28.82	28.28
15	27.55	26.76	26.89	.....	.....	.....	28.67	27.99	28.33	28.41	29.02	28.17
16	27.50	26.74	26.83	.....	.....	30.00	28.50	27.87	28.22	28.26	29.05	28.07
17	27.42	26.73	26.79	.....	.....	29.55	28.34	27.75	28.10	28.15	29.05	28.02
18	27.40	26.71	26.75	.....	.....	30.20	28.17	27.67	28.02	28.06	28.85	28.55
19	27.38	26.70	26.72	.....	.....	30.70	28.40	27.60	27.94	27.97	28.74	28.49
20	27.38	26.67	26.84	.....	.....	29.90	28.54	27.81	27.84	27.90	28.67	28.38
21	27.36	26.67	26.80	.....	.....	29.56	28.33	27.83	27.77	27.83	28.59	28.29
22	27.36	26.66	26.77	.....	.....	29.45	28.16	28.86	27.75	27.77	28.52	28.20
23	27.35	26.65	26.72	.....	.....	29.31	28.10	28.72	27.73	27.70	28.47	28.13
24	27.33	26.64	26.67	.....	.....	29.17	28.52	28.54	27.70	27.65	28.38	28.08
25	27.30	26.63	26.63	.....	.....	29.07	28.35	28.39	27.67	27.73	28.30	28.03

## 25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	27.26	26.62	26.59	.....	.....	28.91	28.72	28.25	27.76	27.58	28.22	27.98
27	27.24	26.60	26.56	.....	.....	28.81	28.58	28.13	27.67	27.56	28.15	27.94
28	27.20	26.60	26.53	.....	.....	28.70	28.47	28.00	27.73	27.53	28.12	27.90
29	27.17		26.51	.....	.....	28.62	28.30	27.97	27.68	27.48	28.05	27.84
30	27.14		26.48	.....	.....	28.52	28.13	27.87	27.65	27.78	27.99	27.80
31	27.11		26.45	.....	.....		28.03	28.20		27.62		27.77

## Jackson County

15. Town of Campbellton. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 2, T. 6 N., R. 12 W. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 315 feet. Highest water level 51.36 below lsd, Sept. 30, 1949; lowest 64.37 below lsd, Dec. 30, 1954. Records available: 1949-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	53.87	53.40	53.27	53.14	54.05	55.60	56.74	58.00	58.62	59.42	60.03
2	.....	53.80	53.40	53.23	53.09	54.28	55.28	56.80	58.18	58.84	59.70	60.01
3	.....	53.71	53.56	53.21	53.10	54.40	55.24	56.78	58.07	58.85	59.50	59.95
4	.....	53.76	53.52	53.26	53.10	54.72	55.20	56.72	58.33	58.83	59.60	59.94
5	.....	53.75	53.52	53.22	53.21	55.30	55.19	56.82	58.10	59.00	59.54	59.94
6	.....	53.74	53.50	53.21	53.40	54.59	55.54	57.20	58.45	58.99	59.45	59.86
7	.....	53.78	53.46	53.28	53.39	54.49	55.72	57.10	58.44	58.86	59.54	60.03
8	.....	53.70	53.42	53.28	53.50	54.68	55.80	57.04	58.32	58.86	59.58	60.00
9	.....	53.67	53.39	53.55	53.35	55.12	55.40	56.92	58.28	58.85	59.80	59.95
10	.....	53.60	53.39	53.80	53.49	54.90	55.48	56.89	58.31	58.90	59.86	59.98
11	.....	53.85	53.34	53.40	53.54	54.68	55.49	57.00	58.41	58.85	59.93	60.00
12	.....	53.79	53.30	53.30	53.60	54.55	55.68	57.40	58.31	58.78	60.01	60.10
13	.....	53.81	53.38	53.21	53.50	54.52	.....	57.43	58.48	58.65	60.01	60.00
14	.....	53.80	53.36	53.21	53.36	54.58	.....	57.50	58.61	58.71	59.91	59.91
15	.....	53.81	53.37	53.18	53.28	54.44	.....	57.66	58.52	58.70	59.77	59.90
16	54.30	53.80	53.46	53.10	53.35	54.80	.....	57.99	58.43	58.91	59.68	59.96
17	54.36	53.73	53.58	53.08	53.30	54.96	.....	57.85	58.50	58.88	59.68	60.11
18	54.30	53.79	53.51	53.16	53.69	54.85	.....	57.80	58.39	58.87	59.67	60.00
19	54.26	53.79	53.20	53.14	53.69	54.89	.....	58.07	58.33	59.07	59.68	60.04
20	54.20	53.71	53.22	53.21	53.44	54.90	.....	57.97	58.28	59.11	59.66	59.93
21	54.08	53.68	53.24	53.21	53.61	54.88	.....	57.70	58.30	59.33	59.73	60.03
22	54.09	53.70	53.24	53.20	53.78	55.05	.....	57.45	58.33	59.35	59.79	60.05
23	54.10	53.69	53.40	53.10	53.75	54.98	.....	57.40	58.44	59.27	59.64	60.18
24	54.09	53.52	53.50	53.10	53.68	55.92	.....	57.37	58.44	59.32	59.74	60.20
25	54.10	53.48	53.34	53.11	54.41	55.26	.....	57.41	58.65	59.40	59.78	60.18
26	54.02	53.70	53.43	53.08	54.50	55.18	.....	57.44	58.63	59.33	59.80	60.22
27	54.00	53.54	53.37	53.04	54.30	55.05	56.01	57.48	58.50	59.46	59.90	60.23
28	53.97	53.40	53.23	53.00	54.18	55.10	56.13	57.53	58.55	59.56	59.72	60.23
29	54.00		53.20	53.12	54.18	55.40	56.16	57.70	58.51	59.39	59.87	60.22
30	53.95		53.35	53.07	54.00	56.08	56.44	57.90	58.59	59.34	60.00	60.17
31	53.94		53.19		53.88		56.62	58.00		59.37		60.25

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	58.30	53.43	56.60	57.38	58.12	59.74	60.73	62.21	62.70	63.60	63.75
2	.....	59.00	58.30	57.00	56.40	57.99	59.78	60.76	62.18	62.79	63.48	63.82
3	.....	58.70	53.84	57.21	56.50	58.18	59.64	60.83	62.38	62.80	63.64	64.00
4	.....	58.20	58.14	57.60	56.86	58.70	59.60	60.70	62.39	63.03	63.45	64.02
5	.....	58.21	58.18	57.35	57.17	58.68	59.26	60.98	62.33	63.05	63.40	63.81
6	.....	58.30	54.35	56.80	56.93	58.81	59.38	61.14	62.47	63.00	63.40	63.80
7	.....	58.37	58.21	57.30	57.60	58.68	58.38	61.01	62.40	62.79	63.37	64.00
8	.....	58.40	53.71	57.00	57.38	59.05	58.38	60.97	62.43	62.78	63.71	64.06
9	.....	54.30	58.05	57.45	57.19	59.08	59.24	60.85	62.37	62.89	63.82	63.88
10	.....	58.61	57.95	55.83	57.40	59.01	59.32	61.04	62.50	62.80	63.80	64.17
11	.....	58.41	53.62	57.56	57.40	58.68	59.41	61.24	62.30	62.87	63.96	64.30
12	.....	58.40	57.48	57.41	57.40	58.51	59.60	61.42	62.39	62.84	63.88	64.01
13	.....	58.39	57.82	57.85	57.11	58.74	.....	61.44	62.60	63.23	63.91	63.74
14	.....	58.22	53.57	56.70	56.61	58.78	.....	61.70	62.68	63.00	63.72	63.99
15	.....	58.41	58.10	56.10	56.57	59.10	.....	62.00	62.50	63.16	63.44	63.79
16	58.80	58.31	57.80	56.20	56.51	58.99	.....	62.16	62.43	62.90	63.40	64.09
17	58.62	58.15	57.60	56.40	57.25	59.14	.....	62.16	62.45	63.41	63.47	63.95
18	58.80	58.21	57.82	56.35	57.41	59.01	.....	62.08	62.30	63.50	63.48	63.85
19	58.80	58.00	57.25	56.81	57.21	58.95	.....	62.08	62.24	63.60	63.48	63.87
20	58.60	57.80	57.80	56.81	56.96	59.00	.....	62.03	62.25	63.45	63.57	64.24



## 15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	54.40	58.08	53.45	56.57	57.41	59.02	.....	61.72	62.28	63.36	63.60	64.23
22	58.60	57.90	57.25	56.80	57.78	59.12	.....	61.40	62.40	63.26	63.56	63.82
23	58.40	58.28	57.10	57.30	58.18	58.95	.....	61.32	62.41	63.25	63.55	63.96
24	58.55	53.96	56.80	56.40	58.45	59.35	.....	61.48	62.65	63.20	63.61	64.00
25	58.56	58.35	57.00	56.24	58.25	59.45	.....	61.42	62.64	63.28	63.64	63.97
26	58.20	58.07	56.70	56.37	57.35	59.41	.....	61.37	62.52	63.35	63.82	64.01
27	58.45	58.10	57.00	56.40	57.40	59.48	59.92	61.54	62.48	63.50	63.75	64.00
28	58.22	53.88	56.30	56.50	57.41	59.69	60.13	61.72	62.37	63.49	63.87	64.00
29	58.30		57.80	56.45	57.42	59.48	60.37	61.92	62.35	63.40	63.80	64.00
30	58.50		57.82	56.62	58.11	59.65	60.68	62.06	62.52	63.30	63.97	64.37
31	58.40		57.22		58.20		60.65	62.04		63.39		64.08

23. Florida State Hospital. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 36, T. 4 N., R. 7 W. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, depth 475 feet, cased to 100. Highest water level 26.57 below lsd, May 8, 1953; lowest 43.76 below lsd, Nov. 2, 1951. Records available: 1950-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.38	34.21	36.35	36.28	37.18	35.35	36.84	38.41	39.40	40.90	42.38	42.70
2	30.60	34.44	36.30	36.23	37.18	35.23	36.99	38.42	39.48	40.95	42.35	42.70
3	30.54	34.65	36.28	36.17	37.20	35.15	37.08	38.45	39.51	40.99	42.32	42.70
4	30.64	34.90	36.31	36.17	37.25	35.08	37.18	38.52	39.59	41.01	42.30	42.70
5	30.81	35.11	36.28	36.22	37.28	34.99	37.29	38.57	39.62	41.08	42.33	42.70
6	31.15	35.28	36.28	36.25	37.33	34.85	37.38	38.58	39.69	41.10	42.35	42.70
7	31.52	35.44	36.30	36.27	37.36	34.71	37.47	38.60	39.72	41.16	42.38	42.71
8	31.84	35.54	36.32	36.33	37.40	34.62	37.57	38.65	39.77	41.20	42.40	42.72
9	32.17	35.63	36.32	36.37	37.43	34.60	37.68	38.64	39.82	41.24	42.41	42.72
10	32.43	35.75	36.35	36.44	37.45	34.60	37.69	38.60	39.88	41.29	42.43	42.72
11	32.85	35.85	36.37	36.50	37.53	34.62	37.76	38.62	39.94	41.30	42.46	42.70
12	33.27	36.02	36.42	36.55	37.58	34.61	37.82	38.69	39.95	41.33	42.50	42.70
13	33.57	36.09	36.44	36.61	37.64	34.64	37.90	38.71	40.05	41.39	42.53	42.68
14	33.74	36.15	36.47	36.64	37.70	34.63	37.95	38.79	40.10	41.43	42.57	42.65
15	33.87	36.23	36.55	36.68	37.69	34.64	37.99	38.82	40.14	41.47	42.57	42.63
16	34.07	36.27	36.68	36.70	37.69	34.66	38.07	38.94	40.20	41.51	42.58	42.62
17	34.27	36.25	36.55	36.77	37.68	34.70	38.12	38.96	40.24	41.55	42.59	42.61
18	34.43	36.43	36.52	36.81	37.69	34.65	38.19	38.99	40.33	41.59	42.60	42.60
19	34.54	36.48	36.47	36.84	37.72	34.57	38.22	39.02	40.39	41.63	42.60	42.60
20	34.63	36.53	36.46	36.86	37.71	34.55	38.27	39.09	40.42	41.69	42.61	42.60
21	34.70	36.57	36.49	36.89	37.74	34.50	38.32	39.11	40.48	41.73	42.62	42.60
22	34.65	36.62	36.52	36.91	37.73	34.50	38.34	39.08	40.50	41.79	42.63	42.60
23	34.43	36.62	36.49	36.96	37.60	34.51	38.38	38.99	40.57	41.82	42.63	42.60
24	34.08	36.57	36.48	36.99	37.33	34.65	38.42	38.98	40.60	41.86	42.65	42.60
25	33.94	36.56	36.50	37.01	37.02	34.90	38.47	39.00	40.65	41.89	42.66	42.60
26	33.83	33.52	36.53	37.02	36.78	35.28	38.39	39.04	40.70	41.93	42.68	42.60
27	33.72	36.47	36.53	37.03	36.60	35.65	38.30	39.11	40.72	41.98	42.69	42.61
28	33.60	36.48	36.54	37.07	36.44	36.03	38.32	39.19	40.76	42.03	42.70	42.62
29	33.52		36.54	37.10	36.14	36.35	38.32	39.21	40.80	42.15	42.70	42.65
30	33.63		36.48	37.14	35.80	36.67	38.36	39.28	40.86	42.24	42.70	42.67
31	33.91		36.38		35.54		38.40	39.33		42.30		42.70

## Lake County

18. Maurice Brantley. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 31, T. 17 S., R. 27 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 190 feet. Land-surface datum is 99.2 feet above msl. Highest water level 49.6 below lsd, Nov. 1948; lowest 57.33 below lsd, Apr. 4, Aug. 3, 1953. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	51.79	Apr. 16	52.75	July 13	54.02	Oct. 8	55.02
Mar. 1	52.18	May 28	53.49	Aug. 6	54.85	Nov. 19	55.28

19. J. W. Jones. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 17 S., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 296 feet. Land-surface datum is 94.3 feet above msl. Highest water level 48.9 below lsd, Dec. 1947; lowest 54.9 below lsd, June 1939. Records available: 1936-54. Jan. 23, 50.29; Mar. 1, 50.87; Apr. 16, 50.17; July 13, 53.10; Aug. 6, 53.04; Oct. 8, 53.20; Nov. 19, 53.73.

20. Margarite E. Wilson. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 22, T. 17 S., R. 29 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 252 feet. Land-surface datum is 10.7 feet above msl. Highest water level 11.3 above lsd, Oct. 1945; lowest 7.0 above lsd, Mar. 8, 1951. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	+10.2	May 27	+8.4	Aug. 6	+8.5	Oct. 27	+10.2
Mar. 2	+9.7	July 12	+8.3	Sept. 18	+8.7	Dec. 7	+8.8
Apr. 16	+9.0						

22. Earl Little. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 15 S., R. 28 E. Astor. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 254 feet. Land-surface datum is 16.5 feet above msl. Highest water level 0.5 above lsd, Oct. 1945; lowest 2.8 below lsd, Oct. 1949. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	0.49	Apr. 30	1.15	Aug. 6	1.66	Nov. 4	1.50
Mar. 22	.91	June 14	1.66	Sept. 18	1.77	Dec. 16	1.60

### Lee County

246. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, T. 44 S., R. 25 E. Drilled observation water-table well in shell marl of Tamiami formation, diameter 8 inches, depth 27 feet, cased to 19. Land-surface datum is 19.36 feet above msl. Highest water level 19.50 above msl, Oct. 2, 1951; lowest 9.69 above msl, June 10, 1949. Records available: 1945-54. Affected by pumping of nearby wells.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.87	14.12	13.52	14.82	14.45	14.45	16.53	18.27	19.10	19.00	17.52	17.27
2	14.87	14.10	13.62	14.92	14.75	14.74	16.48	18.15	18.97	18.80	17.44	17.22
3	14.85	14.09	13.71	14.73	13.80	15.00	16.39	18.03	18.87	18.93	17.30	17.16
4	14.84	14.05	13.77	14.60	14.89	15.22	16.35	17.91	18.78	18.68	17.25	17.10
5	14.82	14.01	13.83	14.53	15.23	15.28	16.31	17.85	18.63	18.57	17.19	17.07
6	14.77	13.99	13.92	14.49	15.31	15.37	16.28	17.74	18.50	18.45	17.10	17.52
7	14.73	13.96	14.25	14.44	15.32	13.80	16.61	17.64	18.37	18.55	17.02	17.18
8	14.70	13.94	14.52	14.40	15.30	14.93	16.96	18.10	18.69	18.46	16.96	17.10
9	14.68	13.92	14.69	14.36	15.28	15.13	17.15	17.69	18.85	18.32	16.92	17.04
10	14.65	13.90	14.79	14.32	15.27	15.18	16.93	18.03	18.48	18.55	16.88	17.14
11	14.60	13.87	14.87	14.28	15.25	15.23	16.85	18.33	18.32	18.28	16.85	16.95
12	14.58	13.85	14.92	14.26	15.30	15.24	17.43	17.74	18.20	18.15	17.21	16.92
13	14.57	13.82	14.97	14.25	15.50	15.22	17.47	17.55	18.95	18.08	17.53	17.28
14	14.57	13.80	15.00	14.24	15.66	15.22	17.95	17.45	18.60	18.20	17.75	17.30
15	14.55	13.78	14.95	14.23	15.70	15.32	18.00	17.33	18.36	17.95	17.60	17.05
16	14.52	13.76	14.92	14.22	15.68	16.00	17.75	17.38	18.23	17.74	17.49	16.92
17	14.49	13.75	14.97	14.18	14.47	16.27	17.56	17.35	18.18	17.65	17.45	16.90
18	14.47	13.05	14.94	14.12	13.93	.....	17.42	17.25	19.10	17.59	17.29	17.95
19	14.45	12.50	14.92	12.97	13.60	.....	18.04	17.14	18.88	17.51	17.97	17.67
20	14.43	12.28	15.03	12.70	13.35	.....	18.36	17.05	18.77	17.47	18.22	17.52
21	14.40	12.11	15.07	12.49	13.17	.....	18.05	17.95	18.67	17.38	17.70	17.44
22	14.37	12.09	15.10	12.40	14.26	16.35	17.81	18.14	18.94	17.30	17.56	17.34
23	14.34	13.16	15.10	13.20	14.52	16.43	17.68	18.10	19.03	17.22	18.54	17.28
24	14.32	13.26	15.07	13.49	13.25	16.47	18.65	17.67	18.83	17.17	17.96	17.21
25	14.28	13.32	15.03	13.58	12.95	16.47	18.80	17.53	18.68	17.12	17.80	17.16
26	14.27	13.35	15.00	13.65	12.80	16.47	18.88	17.35	19.15	17.10	17.65	17.12
27	14.25	13.38	14.98	13.70	12.72	16.47	18.86	17.22	19.01	17.05	17.56	17.09
28	14.22	13.42	14.96	13.77	13.75	16.47	18.90	18.62	18.94	17.02	17.47	17.05
29	14.19		14.94	13.90	14.05	16.46	18.55	19.10	18.82	16.98	17.40	17.00
30	14.16		14.88	14.00	14.22	16.44	18.31	18.90	18.76	18.28	17.30	16.95
31	14.13		14.85		14.20		18.63	18.80		17.65		16.90

367. J. H. Roediger. West side of McGregor Blvd., about 0.7 mile south of Whiskey Creek. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 9, T. 45 S., R. 24 E. Drilled irrigation artesian well in limestone of Floridan aquifer, diameter 6 inches, reported depth 1,060 feet. Land-surface datum is 7.24 feet above msl. Highest water level 36.5 above msl, Sept. 25, 1944; lowest 27.5 above msl, Dec. 3, 1954. Records available: 1944, 1950-54. Aug. 17, +32.5; Dec. 3, +27.5.

414. Lee County and City of Fort Myers. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 21, T. 44 S., R. 26 E. Drilled unused water-table well in limestone of Hawthorn formation, diameter 8 inches, depth 94 feet, cased to 60. Land-surface datum is 20.80 feet above msl. Highest water level 19.77 above msl, Oct. 2, 1951; lowest 13.74 above msl, Nov. 10, 1954. Records available: 1948-54. Water level affected by pumping of nearby wells.

414-- Continued.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.69	15.05	16.11	14.68	18.15	17.65	18.18	18.83	19.14	18.81	17.48	17.67
2	16.73	14.45	16.42	14.22	18.17	18.30	18.09	18.70	19.33	19.02	17.55	17.42
3	16.73	14.38	16.59	15.35	18.16	18.53	18.00	18.58	19.17	18.98	17.62	17.03
4	16.74	14.60	16.65	14.33	18.12	18.63	17.97	18.48	19.07	18.85	17.39	15.59
5	16.76	14.21	16.67	15.23	18.12	18.55	18.23	18.40	19.03	18.72	17.47	14.75
6	16.76	.....	16.70	16.25	18.20	18.47	18.50	18.30	18.88	18.60	17.50	14.90
7	16.77	.....	16.96	16.58	18.09	18.60	18.73	18.21	18.72	18.55	17.32	17.00
8	16.75	.....	17.20	17.06	18.00	18.78	18.80	18.14	18.64	18.52	15.00	17.25
9	16.69	.....	17.29	17.40	17.90	18.59	18.94	18.10	18.55	17.96	13.75	17.32
10	16.55	.....	17.40	17.38	17.83	18.43	18.86	18.07	18.73	17.62	13.74	17.38
11	16.48	.....	17.40	17.33	17.75	18.35	18.85	18.07	18.82	17.84	14.74	16.82
12	16.48	14.93	17.35	17.26	17.70	18.41	19.00	18.13	18.68	17.88	14.83	15.83
13	16.54	14.34	17.32	17.23	17.70	18.40	18.96	18.05	18.61	16.45	15.67	16.14
14	16.47	14.13	17.27	17.27	18.10	18.29	19.07	18.00	18.77	16.10	17.23	16.70
15	16.47	14.03	17.18	17.45	18.23	18.25	19.18	17.93	18.87	16.10	17.72	17.50
16	16.50	14.03	16.33	17.60	18.15	18.58	19.21	17.87	18.26	16.07	17.30	16.60
17	16.37	15.00	16.33	17.78	18.04	18.95	19.07	17.80	18.10	16.05	17.45	16.53
18	16.27	15.33	16.65	17.70	17.95	18.95	18.90	17.75	18.13	15.52	17.64	16.90
19	16.23	14.48	16.58	17.59	17.85	19.00	18.78	17.69	18.70	14.47	17.41	17.90
20	16.23	14.48	16.67	17.50	17.81	19.11	18.70	17.64	19.22	14.43	17.45	18.07
21	16.25	14.84	17.05	17.44	17.74	18.95	18.70	17.60	19.12	14.67	17.40	17.84
22	16.23	15.50	17.07	17.44	17.66	18.87	18.58	17.80	19.06	14.61	17.02	17.89
23	16.23	15.76	17.00	17.61	17.58	18.86	18.53	18.01	19.16	15.47	17.32	17.74
24	16.27	15.80	16.91	17.72	16.95	18.77	18.52	18.02	19.10	15.52	17.99	17.81
25	15.86	15.33	16.77	17.75	17.10	18.65	18.60	17.96	18.99	14.84	18.06	17.87
26	15.87	14.62	15.80	17.70	17.35	18.59	18.75	17.87	18.99	14.60	17.88	17.84
27	15.87	14.49	14.40	17.64	17.38	18.65	18.69	17.78	19.05	15.39	17.90	17.59
28	15.95	15.17	14.20	17.80	17.47	18.57	18.72	17.75	19.13	15.50	17.92	17.63
29	15.95		14.90	18.11	17.43	18.43	18.95	18.39	18.97	15.70	17.24	17.73
30	15.95		15.95	18.07	17.43	18.30	19.03	19.08	18.85	16.05	17.40	17.42
31	15.95		16.10		17.46		18.94	19.15		17.52		16.97

e Estimated.

## Leon County

5. City of Tallahassee. Gadsden and Gaines Sts. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 1 S., R. 1 W. Drilled public-supply artesian well in Floridan aquifer, diameter 22 to 20 inches, depth 235 feet. Land-surface datum is 125.54 feet above msl. Highest water level 88.3 below lsd, Apr. 22, 1948; lowest 106.1 below lsd, Feb. 7, 1935, Jan. 15, 1953. Records available: 1931-53. Measurement discontinued.

7. City of Tallahassee. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 31, T. 1 N., R. 1 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 211 feet. Land-surface datum is 186.5 feet above msl. Highest water level 148.84 below lsd, Apr. 26, 1948; lowest 169.55 below lsd, Dec. 9, 1954. Records available: 1945-54.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	164.45	164.32	164.93	165.53	166.28	.....	167.23	167.40	167.79	168.03	.....	168.40
2	164.43	164.26	164.94	165.59	166.27	166.69	167.25	167.40	167.83	168.03	.....	168.38
3	164.40	164.21	164.91	165.10	166.26	166.75	167.25	167.46	167.84	168.05	.....	168.40
4	164.38	164.28	165.03	165.12	.....	166.75	167.25	167.47	167.87	168.05	.....	168.43
5	164.37	164.34	164.97	165.67	.....	166.83	167.22	167.50	167.88	168.08	.....	168.32
6	164.07	164.39	165.01	165.67	.....	166.85	167.20	167.48	167.87	168.10	168.33	168.32
7	164.12	164.43	165.04	165.77	.....	166.85	167.26	167.50	.....	168.07	168.34	168.54
8	164.10	164.43	165.05	165.79	.....	166.87	167.27	167.52	167.87	168.12	168.37	168.52
9	164.03	164.44	.....	165.83	.....	166.90	167.24	167.51	167.86	168.09	168.35	168.41
10	163.93	164.44	165.04	165.83	.....	166.93	167.25	167.46	167.84	168.08	168.37	168.52
11	163.90	164.46	165.07	165.88	166.45	166.93	167.30	167.50	167.85	168.06	168.39	168.53
12	164.44	164.57	165.13	165.82	166.46	166.91	167.28	167.50	167.92	168.10	168.38	168.50
13	164.37	164.67	165.13	165.86	166.37	166.95	167.30	167.53	167.95	168.12	168.38	168.44
14	164.29	164.65	165.11	165.86	166.44	166.94	167.30	167.55	167.98	168.11	168.38	168.48
15	164.20	164.64	165.27	165.87	166.50	166.97	167.30	167.52	167.93	168.00	168.34	168.49
16	164.10	.....	165.36	165.79	166.50	166.97	167.32	167.53	167.92	168.20	168.33	168.35
17	164.28	164.63	165.34	165.92	166.50	167.00	167.35	167.60	167.95	168.25	168.35	168.50
18	164.32	164.73	165.30	165.93	166.54	167.01	167.35	167.60	167.94	168.23	168.36	168.51
19	164.27	164.70	165.22	165.97	166.55	167.01	167.34	167.65	167.95	168.23	168.30	168.57
20	164.27	164.69	165.29	166.03	166.53	167.03	167.37	167.66	167.96	168.26	168.32	168.59

## 7--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	164.26	164.72	165.35	166.02	166.61	167.07	167.37	167.67	167.94	168.26	168.37	168.57
22	164.18	164.79	.....	166.04	166.62	167.10	167.38	167.70	167.92	168.27	168.36	168.60
23	164.30	.....	164.87	166.05	166.62	167.12	167.39	167.70	167.95	168.32	.....	168.62
24	164.29	164.66	164.90	166.07	.....	167.09	167.36	167.66	167.98	168.32	168.36	168.62
25	164.29	164.87	164.93	166.09	166.68	167.10	167.39	167.64	167.98	168.30	168.38	168.67
26	164.28	164.78	164.96	166.10	166.68	167.11	167.42	167.63	167.96	168.30	168.41	168.66
27	164.23	164.89	164.96	166.08	166.65	167.11	167.42	167.66	167.95	168.30	168.35	168.65
28	164.28	164.76	164.95	166.08	166.65	167.12	167.37	167.67	167.98	168.27	168.34	168.64
29	164.29	.....	165.49	166.14	166.65	167.14	167.38	167.64	168.01	168.23	168.43	168.63
30	164.29	.....	165.46	166.21	166.68	167.18	167.40	167.65	168.04	168.26	168.50	168.67
31	164.31	.....	165.50	.....	166.68	.....	167.41	167.74	.....	168.31	.....	168.65

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	165.63	165.60	166.07	165.83	166.39	.....	167.34	167.61	167.95	168.08	.....	168.54
2	165.55	165.60	165.23	165.74	166.36	166.91	167.35	167.65	167.95	168.08	.....	168.48
3	165.55	165.40	165.15	165.73	166.39	166.85	167.35	167.72	167.96	168.11	.....	168.52
4	165.53	165.48	165.24	165.75	.....	166.87	167.45	167.60	167.98	168.16	.....	168.55
5	165.53	165.53	166.07	165.81	.....	167.08	167.30	167.71	167.94	168.17	.....	168.48
6	165.25	165.70	166.06	165.81	.....	166.94	167.35	167.74	167.90	168.17	168.42	168.65
7	165.31	165.57	166.08	165.94	.....	167.16	167.32	167.61	.....	168.21	168.46	168.61
8	165.25	164.63	165.22	165.96	.....	168.32	167.34	167.60	167.97	168.20	168.50	168.60
9	165.28	165.57	.....	165.97	.....	168.40	167.35	167.60	168.15	168.18	168.49	169.55
10	165.13	165.75	165.26	165.94	.....	168.38	167.41	167.66	168.03	168.14	168.53	168.65
11	165.45	165.66	165.33	166.06	167.88	167.03	167.35	167.65	168.02	168.16	168.52	168.67
12	165.53	166.00	165.40	166.00	166.75	167.06	167.40	167.75	168.07	168.18	168.52	168.57
13	165.48	165.98	165.37	166.15	166.48	167.04	167.39	167.85	168.13	168.22	168.66	168.55
14	165.40	165.80	165.43	165.94	166.55	167.10	167.55	167.84	168.20	168.20	168.45	168.57
15	165.37	166.02	165.55	166.00	166.57	167.08	167.57	167.85	168.00	168.24	168.45	168.62
16	164.38	.....	165.58	165.97	166.58	167.10	167.44	167.66	168.00	168.30	168.41	168.84
17	165.45	165.80	165.56	166.04	166.64	167.12	167.47	167.73	168.02	168.30	168.46	168.63
18	165.44	164.93	165.55	166.05	166.65	167.12	167.44	167.75	168.05	168.36	168.48	168.64
19	165.49	165.83	165.36	166.08	166.65	167.10	167.60	167.76	167.98	168.32	168.42	168.65
20	165.44	165.96	165.47	166.12	166.64	167.12	167.62	167.77	168.02	168.36	168.45	168.70
21	165.50	165.87	165.66	166.12	166.68	167.35	167.48	167.82	168.02	168.37	168.47	168.73
22	165.24	166.10	.....	166.13	166.70	167.45	167.66	167.89	168.00	168.44	168.48	168.68
23	165.47	.....	165.15	166.21	166.72	167.27	167.65	167.86	168.07	168.47	.....	168.73
24	165.64	165.87	165.19	166.20	.....	167.20	167.57	167.85	168.06	168.42	168.47	168.73
25	165.60	166.13	165.15	166.19	166.77	167.18	167.63	167.80	168.05	168.54	168.50	168.74
26	165.64	166.14	164.24	166.20	166.76	167.23	167.50	167.75	168.03	169.47	168.53	168.73
27	165.58	166.01	165.26	166.36	166.77	167.20	167.58	167.75	168.02	168.44	168.46	168.75
28	165.60	166.08	165.08	167.35	166.91	167.22	167.57	167.76	168.08	168.37	168.41	168.73
29	165.48	.....	165.71	166.49	166.79	167.27	167.57	167.70	168.10	168.33	168.60	168.73
30	165.47	.....	166.66	166.57	166.75	167.31	167.65	167.81	168.14	168.39	168.58	168.80
31	165.46	.....	165.63	.....	166.79	.....	167.60	167.89	.....	168.37	.....	168.78

28. John S. Phipps. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 15, T. 2 N., R. 1 W. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 200 feet. Land-surface datum is 190.04 feet above msl. Highest water level 137.31 below lsd, May 15, 1950; lowest 144.35 below lsd, Nov. 9, 1951. Records available: 1950-54.

## Daily mean water level from recorder graph, 1953\*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	142.51	142.66	142.18	141.50	140.13	139.56	138.97	139.05	138.81	138.11	139.28	139.64
2	142.32	142.63	.....	.....	140.10	139.57	138.92	139.11	138.77	138.23	139.37	139.66
3	142.35	142.59	.....	.....	140.14	139.65	138.95	139.37	138.79	138.83	139.34	139.55
4	142.50	142.61	141.63	.....	140.13	139.68	139.00	139.32	138.71	138.65	139.25	139.53
5	142.51	142.68	.....	.....	140.12	139.65	138.99	139.27	138.67	138.48	139.05	139.61
6	142.60	142.60	.....	141.36	139.99	139.64	139.00	139.28	138.55	138.51	139.16	139.48
7	142.62	142.47	.....	.....	139.89	139.87	139.01	139.33	138.58	138.59	139.17	139.55
8	142.45	142.59	.....	.....	139.85	140.03	139.01	139.29	138.65	138.50	139.42	139.44
9	142.18	142.68	.....	141.33	139.82	140.02	139.03	138.97	139.14	138.41	139.50	139.27
10	142.33	142.65	.....	141.25	139.79	139.90	139.03	139.00	139.02	138.40	139.49	139.26
11	142.45	142.55	.....	141.21	139.77	139.72	139.01	139.00	138.82	138.43	139.50	139.25
12	142.59	142.40	.....	141.04	139.74	139.67	139.02	139.05	138.58	138.45	139.55	139.12
13	142.62	142.55	.....	141.05	139.71	139.61	139.00	139.02	138.44	139.36	139.59	138.96
14	142.62	142.47	.....	141.03	139.70	.....	139.03	139.03	138.38	139.62	139.60	138.88
15	142.63	142.49	141.55	140.86	139.68	139.69	139.07	139.01	138.32	139.53	139.53	139.13
16	142.63	142.58	141.67	.....	139.73	139.70	139.10	138.99	138.23	139.41	139.50	139.12
17	142.63	142.59	141.62	140.82	139.73	139.63	139.09	138.97	138.23	139.37	139.53	139.18
18	142.58	142.72	141.48	140.74	139.61	.....	139.06	138.94	138.22	139.36	139.55	139.22
19	142.55	142.60	.....	140.72	139.53	139.59	139.05	138.90	138.25	139.32	139.51	139.17
20	142.53	142.47	.....	.....	139.53	139.60	139.05	138.91	138.28	139.31	139.47	138.97

28--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	142.57	142.57	.....	140.65	139.60	139.58	139.05	138.96	138.33	139.27	139.46	138.85
22	142.68	142.65	.....	140.63	139.58	139.58	139.00	138.94	138.40	139.23	139.47	138.92
23	142.53	142.55	.....	140.54	139.55	139.57	138.99	138.81	138.41	139.16	139.44	138.83
24	142.53	142.35	.....	139.55	139.53	138.97	138.85	138.36	139.03	139.35	138.78	138.78
25	142.73	142.25	141.47	140.53	139.70	139.53	139.10	138.95	138.29	139.09	139.42	138.50
26	142.73	142.20	141.55	140.43	139.63	.....	139.13	138.92	137.90	139.16	139.61	138.43
27	142.68	142.22	.....	140.37	139.55	.....	139.06	138.93	137.90	139.10	139.63	138.39
28	142.60	142.20	141.45	140.30	139.64	.....	139.04	138.85	138.05	139.04	139.68	138.37
29	142.72	.....	141.50	140.15	139.67	.....	139.05	.....	138.05	139.08	139.71	138.33
30	.....	.....	.....	140.03	139.70	.....	139.07	138.87	138.09	139.15	139.63	138.35
31	.....	.....	.....	.....	139.63	.....	139.04	138.85	.....	139.19	.....	138.55

\* Corrected measurements.

Daily mean water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	138.47	138.42	138.23	138.46	139.00	.....	139.59	139.94	140.18	140.45	141.42	141.50
2	138.42	138.26	138.25	138.57	138.99	139.31	139.58	139.77	140.19	140.43	141.36	141.34
3	138.25	138.14	138.25	138.55	138.92	139.29	139.56	139.80	140.19	140.44	141.40	141.32
4	138.20	138.22	138.42	138.57	138.94	139.38	139.55	139.91	140.20	140.43	141.25	141.40
5	138.10	138.27	138.35	138.60	138.96	139.50	139.50	139.90	140.21	140.41	141.22	141.25
6	138.15	138.29	138.31	138.61	139.00	139.57	139.50	139.83	140.16	140.42	141.30	141.31
7	138.21	138.35	138.32	138.58	139.02	139.56	139.53	139.80	140.11	140.49	141.32	141.58
8	138.21	138.31	138.27	138.56	139.07	139.53	139.54	139.85	140.14	140.65	141.37	141.78
9	138.15	138.25	138.20	138.60	139.16	139.50	139.50	139.84	140.16	140.64	141.35	141.61
10	138.09	138.24	138.16	138.70	139.20	.....	139.57	139.85	140.11	140.53	141.37	141.76
11	138.36	138.21	138.18	138.77	139.20	.....	139.62	139.89	140.15	140.47	141.40	141.78
12	138.48	138.45	138.25	138.63	139.18	.....	139.60	139.91	140.14	140.48	141.34	141.67
13	138.46	138.50	138.27	138.64	139.05	.....	139.61	139.97	140.27	140.54	141.30	141.50
14	138.25	138.45	138.29	138.60	.....	.....	139.63	140.01	140.25	.....	141.24	141.53
15	138.16	138.42	138.55	138.59	.....	.....	139.64	140.00	140.20	.....	141.18	141.56
16	138.10	138.39	138.61	138.50	.....	.....	139.65	139.97	140.21	.....	141.12	141.69
17	138.22	138.37	138.57	138.65	.....	.....	139.68	139.95	140.20	.....	141.14	141.63
18	138.35	138.37	138.42	138.70	.....	.....	139.70	140.00	140.20	.....	141.17	141.58
19	138.24	138.35	138.30	138.74	.....	.....	139.70	139.98	140.21	.....	141.11	141.67
20	138.20	138.31	138.25	138.76	.....	.....	139.68	140.05	140.20	.....	141.12	141.70
21	138.23	138.33	138.32	138.65	.....	.....	139.68	140.15	140.17	.....	141.25	141.90
22	138.10	138.37	138.67	138.64	.....	.....	139.69	140.14	140.29	.....	141.25	141.85
23	138.25	138.40	138.63	138.67	.....	.....	139.46	140.20	140.34	.....	141.27	141.89
24	138.32	138.09	138.60	138.69	.....	.....	139.42	140.11	140.37	.....	141.28	141.90
25	138.27	138.17	138.26	138.74	.....	.....	139.45	140.05	140.30	.....	141.32	142.00
26	138.25	138.10	138.38	138.80	.....	.....	139.45	140.10	140.27	.....	141.39	142.03
27	138.21	138.13	138.41	138.79	.....	.....	139.44	140.11	140.23	.....	141.30	141.84
28	138.23	138.03	138.37	138.78	.....	.....	139.46	140.10	140.28	.....	141.22	141.76
29	138.24	.....	138.34	138.87	.....	.....	139.47	140.05	140.42	.....	141.45	141.72
30	138.22	.....	138.30	138.95	.....	.....	139.63	140.10	140.41	141.41	141.60	141.81
31	138.43	.....	138.35	.....	.....	.....	139.97	140.15	.....	141.47	.....	141.78

36. Dawkins Pond Church. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 30, T. 3 N., R. 2 E. Driven unused water-table well in sandy clay of Hawthorn formation, diameter 1 $\frac{1}{2}$  inches, depth 30 feet, cased to 27, screen 27-30. Highest water level 0.12 above lsd, Oct. 4, 1948; lowest 29.66 below lsd, Dec. 30, 1954. Records available: 1935-37, 1942-44, 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	18.26	Apr. 30	21.76	July 30	25.41	Nov. 29	27.98
29	17.96	June 1	22.97	Sept. 1	24.87	Dec. 3	28.94
Mar. 1	19.38	30	24.26	Oct. 4	27.30	30	29.66
Apr. 5	20.78						

115. W. F. Christian. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 1 N., R. 1 W. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, depth 194 feet, cased to 104. Highest water level 81.9 below lsd, Apr. 13, 1950, Nov. 30, 1953; lowest 90.4 below lsd, Dec. 3, 1954. Records available: 1950-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	86.4	Mar. 25	86.5	June 30	88.5	Oct. 29	86.7
29	86.0	Apr. 30	87.8	July 30	88.8	Dec. 3	90.4
Mar. 1	86.2	June 1	88.4	Sept. 1	89.2	30	86.2

Madison County

18. Florida State Road Dept. About 1 mile west of Madison. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 21, T. 1 N., R. 9 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 322 feet, cased to 307. Land-surface datum is 100.56 feet above msl. Highest water level 25.54 below lsd, Feb. 2, 1954; lowest 34.15 below lsd, Dec. 30, 1954. Records available: 1952-54. Recording gage installed July 13, 1954.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	32.35	33.10	33.66
2	.....	h25.54	.....	h27.12	.....	.....	.....	.....	.....	32.35	33.08	33.55
3	.....	.....	.....	.....	.....	.....	.....	30.93	.....	32.38	33.16	33.58
4	.....	.....	.....	.....	.....	.....	.....	31.00	.....	32.40	33.07	33.65
5	.....	.....	.....	.....	.....	.....	.....	31.00	.....	32.42	33.08	33.58
6	.....	.....	.....	.....	.....	.....	.....	30.95	.....	32.43	33.16	33.64
7	.....	.....	.....	.....	.....	.....	.....	31.00	.....	32.50	33.20	33.84
8	.....	.....	.....	.....	.....	.....	.....	31.06	.....	32.58	33.23	33.78
9	.....	.....	.....	.....	.....	.....	.....	31.08	.....	32.53	33.24	33.69
10	.....	.....	.....	.....	.....	.....	.....	31.09	.....	32.48	33.30	33.82
11	.....	.....	.....	.....	.....	.....	.....	31.13	.....	32.48	33.29	33.85
12	.....	.....	.....	.....	.....	.....	.....	31.17	.....	32.53	33.28	33.80
13	.....	.....	.....	.....	.....	.....	.....	31.24	.....	32.58	33.24	33.67
14	.....	.....	.....	.....	.....	.....	.....	31.28	.....	32.57	33.22	33.75
15	.....	.....	.....	.....	.....	.....	.....	31.30	31.98	32.51	33.21	33.80
16	.....	.....	.....	.....	.....	.....	30.39	31.29	32.00	32.73	33.22	33.92
17	.....	.....	.....	.....	.....	.....	30.43	31.29	32.04	32.80	33.30	33.85
18	.....	.....	.....	.....	h29.12	.....	30.46	.....	32.05	32.78	33.34	33.82
19	.....	.....	.....	.....	.....	.....	.....	.....	32.07	32.73	33.30	33.91
20	.....	.....	.....	.....	.....	.....	.....	.....	32.08	32.77	33.35	33.95
21	.....	.....	.....	.....	.....	.....	30.50	.....	32.11	32.78	33.44	33.94
22	.....	.....	.....	.....	.....	.....	30.53	.....	32.15	32.85	33.45	33.91
23	.....	.....	.....	.....	.....	.....	30.54	.....	32.20	32.92	33.45	33.94
24	.....	.....	.....	.....	.....	.....	.....	.....	32.25	32.93	33.45	33.98
25	.....	.....	.....	.....	.....	.....	30.60	.....	32.24	32.90	33.50	34.05
26	.....	.....	.....	.....	.....	.....	30.69	.....	32.22	32.90	33.56	34.08
27	.....	.....	.....	.....	.....	.....	30.70	.....	32.20	32.92	33.50	34.05
28	.....	.....	.....	.....	.....	.....	30.74	.....	32.24	32.89	33.47	34.00
29	.....	.....	.....	.....	.....	h29.83	.....	.....	32.31	32.85	33.68	34.00
30	.....	.....	.....	.....	.....	.....	.....	.....	32.35	32.97	33.75	34.12
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	33.08	.....	34.11

h Tape measurement.

Manatee County

92. Ray E. Anderson. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 9, T. 35 S., R. 20 E. Drilled unused artesian well in Floridan aquifer, diameter 5 inches, depth 600 feet, cased to 154. Land-surface datum is 79.77 feet above msl. Highest water level 35.67 below lsd, Oct. 7, 1946; lowest 43.66 below lsd, June 4, 1953. Records available: 1952-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.93	39.11	40.66	41.15	41.32	40.66	39.70	39.36	39.51	39.31	40.56	40.67
2	38.88	39.15	40.74	41.27	41.27	40.75	39.71	39.34	39.52	39.27	40.58	40.55
3	38.84	39.14	40.70	41.34	41.17	40.68	39.68	39.35	39.52	39.27	40.66	40.52
4	38.81	39.23	40.79	41.39	41.08	40.60	39.65	39.38	39.53	39.27	40.66	40.58
5	38.70	39.40	40.72	41.45	41.05	40.58	39.60	39.36	39.55	39.25	40.64	40.57
6	38.69	39.51	40.60	41.45	41.05	40.60	39.58	39.28	39.52	39.23	40.72	40.50
7	38.77	39.67	40.60	41.40	41.05	40.53	39.59	39.27	39.48	39.27	40.82	40.74
8	38.77	39.73	40.56	41.35	41.07	40.45	39.60	39.32	39.44	39.31	40.90	40.84
9	38.73	39.85	40.44	41.35	41.14	40.39	39.55	39.35	39.40	39.27	40.95	40.82
10	38.63	39.90	40.39	41.38	41.16	40.32	39.53	39.37	39.41	39.22	40.97	40.88
11	.....	39.95	40.38	41.40	41.15	40.25	39.53	39.37	39.45	39.18	41.03	40.97
12	38.72	40.09	40.38	41.37	41.12	40.25	39.50	39.41	39.53	39.15	41.05	40.95
13	38.80	40.29	40.39	41.35	41.03	40.25	39.54	39.49	39.60	39.15	41.03	40.87
14	38.77	40.35	40.36	41.30	41.08	40.23	39.55	39.56	39.63	39.05	40.95	40.85
15	38.67	40.37	40.51	41.30	41.14	40.15	39.53	39.60	39.62	39.04	40.90	40.91
16	.....	40.37	40.69	41.30	41.15	40.10	39.54	39.62	39.62	39.25	40.87	41.00
17	.....	40.37	40.73	41.26	41.13	40.05	39.54	39.64	39.60	39.39	40.84	40.95
18	38.67	40.40	40.64	41.33	41.10	40.00	39.55	39.67	39.55	39.44	40.81	40.88
19	38.66	40.44	40.55	41.35	41.08	39.90	39.54	39.65	39.51	39.42	40.75	40.90
20	38.64	40.50	40.54	41.35	41.04	39.87	39.53	39.65	39.50	39.46	40.70	40.95

92--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	38.62	40.55	40.59	41.31	41.07	39.89	39.50	39.68	39.50	39.55	40.78	40.93
22	38.58	40.65	40.75	41.31	41.10	39.90	39.49	39.72	39.50	39.66	40.77	40.85
23	38.63	40.70	40.84	41.33	41.12	39.89	39.44	39.76	39.50	39.82	40.70	40.82
24	38.71	40.57	40.89	41.35	41.14	39.83	39.38	39.72	39.50	39.90	40.69	40.80
25	38.76	40.65	40.90	41.33	41.13	39.78	39.35	39.69	39.47	39.95	40.62	40.82
26	38.79	40.65	40.91	41.32	41.13	39.75	39.37	39.68	39.40	40.02	40.63	40.85
27	38.80	40.63	40.90	41.27	41.05	39.70	39.35	39.72	39.35	40.10	40.58	40.82
28	38.80	40.50	40.87	41.18	40.98	39.65	39.35	39.74	39.34	40.13	40.48	40.76
29	38.87		40.93	41.22	41.01	39.62	39.36	39.66	39.35	40.14	40.55	40.74
30	38.86		40.98	41.27	41.02	39.65	39.40	39.57	39.35	40.23	40.68	40.78
31	39.03		41.05		40.97		39.40	39.52		40.42		40.80

e Estimated.

## Marion County

5. Florida State Road Department. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 15 S., R. 23 E. Drilled observation well in Floridan aquifer, diameter 6 inches, depth 135 feet, cased to 135. Land-surface datum is 39.83 feet above msl. Highest water level 13.71 above lsd, Oct. 15, 1949; lowest 5.9 above lsd, Apr. 1, 1933. Records available: 1933-54.

Daily mean water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.04	12.17	11.61	10.95	10.31	9.69	9.00	8.66	8.46	8.40	8.57	8.17
2	12.13	12.25	11.50	10.90	10.33	9.69	8.99	8.67	8.43	8.42	8.64	8.30
3	12.20	12.32	11.52	10.90	10.38	9.65	9.00	8.63	8.43	8.40	8.57	8.30
4	12.25	12.27	11.41	10.87	10.40	9.63	9.00	8.59	8.41	8.40	8.65	8.22
5	12.35	12.18	11.46	10.83	10.33	9.56	9.02	8.60	8.40	8.40	8.70	8.26
6	12.34	12.20	11.50	10.85	10.27	9.49	9.01	....	8.43	8.40	8.63	8.33
7	12.25	12.05	11.48	10.87	10.22	9.51	8.97	....	8.46	8.35	8.56	8.06
8	12.27	12.10	11.47	10.86	10.17	9.52	8.94	....	8.49	8.40	8.53	8.05
9	12.33	12.07	11.55	10.82	10.11	9.49	8.96	8.56	8.51	8.50	8.54	8.13
10	12.45	12.06	11.54	10.74	10.10	9.49	8.96	8.57	8.51	8.55	8.53	8.10
11	12.47	12.05	11.49	10.74	10.13	9.50	8.92	8.58	8.46	8.59	8.53	8.15
12	12.27	11.89	11.43	10.75	10.15	9.43	8.89	8.55	8.42	8.61	8.55	8.10
13	12.22	11.79	11.40	10.74	10.21	9.38	8.85	8.51	8.37	8.60	8.57	8.21
14	12.30	11.81	11.43	10.75	10.10	9.38	8.83	8.48	8.40	8.71	8.62	8.18
15	12.42	11.84	11.23	10.72	10.00	9.40	8.82	8.49	8.43	8.78	8.64	8.10
16	12.53	11.88	11.10	10.75	9.95	9.38	8.80	8.52	8.43	8.57	8.63	8.00
17	12.40	11.91	11.14	10.65	9.96	9.33	8.78	8.53	8.41	8.51	8.58	8.05
18	12.30	11.86	11.25	10.55	9.98	9.31	8.76	8.52	8.42	8.57	8.53	8.10
19	12.33	11.83	11.35	10.53	9.97	9.33	8.76	8.51	8.43	8.69	8.54	8.09
20	12.35	11.82	11.39	10.54	9.96	9.30	8.76	8.50	8.42	8.71	8.52	7.97
21	12.37	11.83	11.31	10.55	9.85	9.26	8.76	8.51	....	8.71	8.41	7.97
22	12.41	11.74	11.14	10.55	9.80	9.22	8.75	8.47	....	8.66	8.39	8.00
23	12.29	11.74	11.13	10.54	9.77	9.20	8.75	8.47	....	8.61	8.42	7.99
24	12.23	11.88	11.10	10.50	9.76	9.20	8.76	8.52	....	8.65	8.38	7.97
25	12.22	11.77	11.11	10.48	9.76	9.19	8.72	8.56	....	8.71	8.35	7.90
26	12.25	11.75	11.09	10.48	9.74	9.17	8.68	8.55	....	8.73	8.30	7.88
27	12.29	11.69	11.10	10.50	9.79	9.16	8.68	8.51	8.47	8.75	8.33	7.89
28	12.28	11.79	11.09	10.51	9.81	9.16	8.70	8.50	....	8.79	8.36	7.93
29	12.22		11.07	10.42	9.73	9.13	8.65	8.56	....	8.84	8.24	7.93
30	12.22		11.04	10.35	9.67	9.05	8.61	8.57	8.38	8.74	8.10	7.87
31	12.20		11.00		9.66		8.61	8.52		8.62		7.84

47. Harry H. Pratt and A. C. Luffman. Formerly Betram Ibbetson. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, T. 17 S., R. 24 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, depth 179 feet. Land-surface datum is 72.4 feet above msl. Highest water level 12.5 below lsd, Sept. 1949; lowest 21.8 below lsd, June 1945. Records available: 1936-54, Jan. 6, 14.91; Mar. 29, 16.97; May 12, 18.25; June 14, 19.30; Aug. 6, 16.75; Oct. 8, 17.12; Nov. 19, 19.58.

48. E. P. Nelson. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 17 S., R. 25 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, depth 152 feet. Land-surface datum is 61.3 feet above msl. Highest water level 0.2 above lsd, Oct. 1945; lowest 6.4 below lsd, May 1945. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	0.64	Mar. 29	2.84	June 14	4.94	Oct. 8	3.98
Feb. 16	2.00	May 10	3.48	Aug. 6	4.16	Nov. 19	4.32

49. U. S. Forest Service. Formerly Florida State Road Dept. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 24, T. 15 S., R. 26 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, depth 175 feet. Land-surface datum is 66.6 feet above msl. Highest water level 23.4 below lsd, Oct. 1948; lowest 29.3 below lsd, June 1939. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	25.54	Apr. 30	26.48	Aug. 6	27.47	Nov. 4	28.10
Mar. 22	25.98	June 14	27.96	Sept. 18	27.92	Dec. 16	28.42

51. Harold E. Cullison. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 14, T. 15 S., R. 21 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 106 feet. Land-surface datum is 74.5 feet above msl. Highest water level 24.03 below lsd, Oct. 20, 1950; lowest 32.4 below lsd, July 1943. Records available: 1935-54. Feb. 8, 26.41; Mar. 22, 27.67; Apr. 30, 28.97; June 14, 29.71; Aug. 6, 30.54; Oct. 8, 30.92; Nov. 19, 30.35.

#### Martin County

125. Florida Park Service. Jupiter State Park. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 12, T. 40 S., R. 42 E. Drilled unused water-table well in sand of Pleistocene age, diameter 12 to 6 inches, depth 90 feet, cased to 65, screened 65-90. Land-surface datum is 17.60 feet above msl. Highest water level 7.41 above msl, Oct. 18, 1953; lowest 1.40 above msl, Aug. 24, 1952. Records available: 1949-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.67	3.75	3.18	2.78	3.25	3.04	5.14	4.75	4.00	4.83	4.52	3.83
2	4.65	3.74	3.15	2.77	3.26	3.03	5.05	4.72	4.07	4.92	4.50	3.81
3	4.62	3.73	3.13	2.76	3.26	3.02	5.00	4.68	4.10	4.98	4.47	3.78
4	4.58	3.70	3.12	2.75	3.27	3.15	4.97	4.65	4.12	5.04	4.43	3.75
5	4.55	3.68	3.11	2.74	3.27	3.22	4.94	4.62	4.12	5.07	4.40	3.73
6	4.52	3.65	3.10	2.73	3.26	3.27	4.85	4.59	4.12	5.07	4.38	3.70
7	4.48	3.64	3.09	2.72	3.24	3.31	4.81	4.55	4.10	5.09	4.35	3.67
8	4.45	3.62	3.09	2.72	3.21	3.34	4.78	4.51	4.07	5.09	4.31	3.65
9	4.42	3.60	3.10	2.72	3.19	3.36	4.75	4.47	4.05	5.09	4.28	3.63
10	4.40	3.59	3.11	2.72	3.17	3.38	4.72	4.43	3.99	5.09	4.25	3.60
11	4.35	3.57	3.10	2.72	3.15	3.40	4.72	4.40	3.96	5.09	4.23	3.58
12	4.32	3.55	3.08	2.72	3.12	3.40	4.70	4.35	3.93	5.09	4.21	3.56
13	4.28	3.52	3.07	2.72	3.11	3.40	4.67	4.32	3.93	5.09	4.17	3.55
14	4.25	3.50	3.06	2.72	3.10	3.40	4.65	4.29	3.97	5.09	e4.16	3.53
15	4.23	3.49	3.05	2.71	3.08	3.41	5.00	4.26	4.05	5.07	e4.15	3.51
16	4.20	3.47	3.03	2.70	3.08	3.41	5.15	4.24	4.10	5.04	e4.14	3.49
17	4.16	3.45	3.02	2.69	3.08	3.40	5.24	4.19	4.14	4.99	e4.12	3.48
18	4.13	3.42	3.01	2.68	3.07	3.42	5.25	4.15	4.42	4.97	e4.10	3.47
19	4.10	3.40	3.00	2.67	3.05	4.10	5.27	4.12	4.57	4.95	e4.08	3.45
20	4.07	3.38	2.99	2.66	3.04	4.55	5.27	4.10	4.65	4.90	e4.07	3.41
21	4.05	3.36	2.97	2.66	3.04	4.84	5.23	4.06	4.71	4.87	e4.05	3.39
22	4.01	3.33	2.95	2.67	3.05	5.03	5.18	4.03	4.75	4.82	e4.04	3.38
23	3.98	3.31	2.94	2.85	3.05	5.15	5.14	3.99	4.79	4.78	e4.02	3.36
24	3.95	3.29	2.93	2.98	3.06	5.25	5.05	3.96	4.82	4.76	4.00	3.33
25	3.93	3.27	2.92	3.05	3.06	5.30	5.00	3.94	4.85	4.74	3.98	3.30
26	3.89	3.25	2.90	3.12	3.06	5.32	4.96	3.90	4.86	4.70	3.95	3.28
27	3.87	3.23	2.88	3.17	3.07	5.33	4.94	3.87	4.87	4.68	3.93	3.27
28	3.85	3.21	2.86	3.20	3.07	5.33	4.90	3.85	4.89	4.66	3.91	3.26
29	3.82		2.85	3.23	3.06	5.27	4.85	3.83	4.89	4.63	3.88	3.25
30	3.80		2.82	3.25	3.05	5.18	4.80	3.81	4.86	4.58	3.86	3.23
31	3.78		2.80		3.05		4.78	3.85		4.55		3.18

e Estimated.

#### Nassau County

2. G. G. Gerbing. Amelia City. Sec. 50, T. 2 N., R. 28 E. Drilled irrigation artesian well in Floridan aquifer, diameter 3 to 2 inches, reported depth 580 feet, cased to 350. Land-surface datum is 9.98 feet above msl. Highest water level 43.1 above lsd, July 15, 1947; lowest 25.8 above lsd, Aug. 3, 1954. Records available: 1939-40, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	+30.4	May 20	+28.0	Aug. 3	+25.8	Nov. 1	+27.0
Apr. 2	+29.0	June 29	+27.5	Sept. 15	+27.2	Dec. 13	+26.3



8. Charles Pelot. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 1 N., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 680 feet. Land-surface datum is 13.70 feet above msl. Highest water level 43.1 above lsd, July 15, 1947; lowest 29.0 above lsd, Aug. 3, 1954. Records available: 1939-40, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	+31.9	May 20	+30.3	Aug. 3	+29.0	Nov. 1	+29.2
Apr. 2	+30.6	June 29	+29.8	Sept. 15	+29.4	Dec. 13	+29.3

12. J. W. Sheffield. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 4, T. 2 N., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 640 feet. Land-surface datum is 13.02 feet above msl. Highest water level 40.9 above lsd, Mar. 25, 1939; lowest 16.41 below lsd, Nov. 1, 1954. Records available: 1939, 1944-54.

Feb. 4	8.03	May 20	9.91	Aug. 3	13.93	Nov. 1	16.41
Apr. 2	9.45	June 29	9.83	Sept. 15	14.54	Dec. 13	16.27

22. Jack Woodward. Sec. 14, T. 3 N., R. 29 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 800 feet, cased to 534. Land-surface datum is 13.69 feet above msl. Highest water level 30.0 above lsd, Mar. 28, 1939; lowest 25.43 below lsd, Feb. 4, 1954. Records available: 1939-41, 1944-54. Feb. 4, 25.43. Measurement discontinued.

23. Florida Park Service. Formerly Florida Forest and Park Service. About 1 mile east of Fort Clinch. T. 3 N., R. 29 E. Drilled public-supply artesian well in Floridan aquifer, diameter 4 inches, depth 800 feet, cased to 550. Land-surface datum is about 7.82 feet above msl. Highest water level 43.1 above lsd, Mar. 27, 1939; lowest 9.1 above lsd, Nov. 1, 1954. Records available: 1939-42, 1944, 1946-54. Feb. 4, +15.6; May 20, +13.1; June 29, +13.8; Aug. 3, +12.2; Sept. 15, +10.2; Nov. 1, +9.1; Dec. 13, +9.5.

27. Judge Fishler and others. Atlantic Blvd. and North 18th St., Fernandina. Drilled unused artesian well in Floridan aquifer, diameter 3 inches. Land-surface datum is 20.45 feet above msl. Highest water level 29.5 above lsd, Mar. 28, 1939; lowest 23.83 below lsd, Nov. 1, 1954. Records available: 1939-41, 1944-54.

Feb. 4	16.28	May 20	19.44	Aug. 3	21.50	Nov. 1	23.83
Apr. 2	19.06	June 29	19.83	Sept. 15	21.04	Dec. 13	13.72

34. W. L. Hardee. Hardee Dock in Fernandina. Drilled unused artesian well in Floridan aquifer, diameter 2 $\frac{1}{2}$  inches. Land-surface datum is 3.79 feet above msl. Highest water level 47.5 above lsd, June 19, 1939; lowest 19.59 below lsd, Nov. 4, 1953. Records available: 1939-41, 1944-53. Measurement discontinued.

44. Seaboard Air Line RR.Co. Yulee. Drilled railroad artesian well in Floridan aquifer, diameter 4 inches, reported depth 1,000 feet, cased to 450. Land-surface datum is 34.81 feet above msl. Highest water level 26.4 above lsd, Aug. 25, 1938; lowest 8.6 above lsd, Dec. 13, 1954. Records available: 1934, 1938, 1940, 1944-54.

Feb. 3	+13.0	May 20	+11.4	Aug. 3	+11.0	Nov. 1	+8.9
Apr. 2	+12.3	June 29	+10.4	Sept. 15	+9.4	Dec. 13	+8.6

50. C. J. McKendree. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, T. 2 N., R. 26 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 569 feet. Land-surface datum is 17.79 feet above msl. Highest water level 40.3 above lsd, Jan. 18, 1940; lowest 27.2 above lsd, Nov. 20, 1951, Jan. 10, 1952. Records available: 1940-41, 1944-54.

Feb. 3	+29.4	May 20	+33.2	Aug. 3	+31.9	Nov. 1	+31.0
Apr. 2	+30.2	June 29	+32.2	Sept. 15	+31.3	Dec. 13	+30.2

51. Harold D. Blosser. Callahan. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 2 N., R. 25 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 580 feet. Land-surface datum is 18.8 feet above msl. Highest water level 42.5 above lsd, July 15, 1947; lowest 32.4 above lsd, Nov. 1, 1954. Records available: 1940-42, 1944-54. Feb. 3, +36.8; Apr. 2, +35.3; May 20, +34.0; June 29, +33.6; Sept. 15, +32.5; Nov. 1, +32.4; Dec. 13, +32.5.

55. L. R. Church. O'Neil. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T. 2 N., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 540 feet, cased to 504. Land-surface datum is 12.64 feet above msl. Highest water level 33.8 above lsd, July 15, 1947; lowest 14.7 above lsd, Nov. 1, 1954. Records available: 1940, 1944-54.

Feb. 4	+19.8	May 20	+17.5	Aug. 3	+17.2	Nov. 1	+14.7
Apr. 2	+19.6	June 29	+17.0	Sept. 15	+16.4	Dec. 13	+14.9

64. A. H. Crews. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, T. 3 N., R. 24 E. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 648 feet. Land-surface datum is 80.66 feet above msl. Highest water level 16.05 below lsd, Feb. 22, 1949; lowest 27.10 below lsd, July-Dec., 1954. Records available: 1944-54.

Daily mean water level from recorder graph\*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Nov.
1	22.99	22.76	22.89	23.62	24.31	25.05	.....	.....	.....
2	23.04	22.62	23.04	23.73	24.31	25.01	.....	.....	27.10
3	23.00	.....	23.04	23.76	24.25	25.04	26.01	.....	.....
4	22.99	22.46	23.19	23.81	24.21	25.06	26.01	.....	.....
5	22.84	22.53	23.18	23.88	24.26	25.21	25.96	.....	26.96
6	22.83	22.60	23.15	23.88	24.35	25.32	25.96	26.41	27.11
7	22.92	22.67	23.12	23.85	24.38	25.34	25.98	.....	.....
8	22.91	22.60	23.11	23.83	24.44	25.33	26.01	.....	.....
9	22.86	22.57	23.00	23.91	24.55	25.35	25.98	.....	.....
10	22.68	22.58	22.94	24.01	24.61	25.38	25.98	.....	.....
11	22.58	22.58	22.96	24.01	24.62	25.38	26.03	.....	.....
12	22.81	22.84	23.03	23.99	24.59	25.45	26.05	.....	.....
13	22.92	22.96	23.06	24.01	24.49	25.54	26.07	.....	.....
14	22.80	22.96	23.01	24.01	24.56	25.56	.....	.....	.....
15	.....	22.88	23.27	23.96	24.72	25.56	.....	.....	.....
16	.....	22.88	23.46	23.87	24.80	25.57	.....	.....	26.99
17	22.61	.....	23.48	23.95	24.78	25.65	.....	.....	27.01
18	22.71	22.90	23.38	24.08	24.74	25.71	.....	.....	27.04
19	22.69	22.91	23.23	24.16	24.75	25.68	.....	.....	26.99
20	22.66	22.89	23.13	24.17	24.75	25.68	.....	.....	26.95
21	22.61	22.84	23.22	24.16	24.89	25.71	.....	.....	27.05
22	22.53	22.94	23.41	24.14	24.95	25.73	.....	.....	.....
23	22.69	22.94	23.40	24.14	25.01	25.74	.....	.....	27.06
24	22.76	22.69	23.43	24.16	25.06	25.73	.....	.....	27.09
25	22.79	22.79	23.46	24.17	25.08	25.76	.....	.....	.....
26	22.76	22.76	23.50	24.16	25.05	25.77	.....	.....	.....
27	22.69	22.81	23.49	24.11	25.06	25.76	.....	.....	.....
28	22.70	22.71	23.51	24.06	24.96	25.75	.....	.....	27.10
29	22.63	.....	23.51	24.14	25.01	25.75	.....	.....	.....
30	22.71	.....	23.49	24.25	25.07	25.87	.....	.....	.....
31	22.74	.....	23.53	.....	25.11	.....	.....	.....	.....

\* No record for September, October, and December.

## Okaloosa County

3. Okaloosa County. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 13, T. 2 S., R. 24 W. Fort Walton. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 800 feet, cased to 50C. Land-surface datum is 11.98 feet above msl. Highest water level 20.9 above lsd, Apr. 20, 1949; lowest 32.14 below lsd, Sept. 8, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	+0.95	Apr. 8	-7.81	July 8	-28.39	Sept. 8	-32.14
Feb. 24	-.10	May 21	-18.00	27	-24.15	Nov. 30	-29.27

23. U. S. Army. Eglin Auxiliary Field 2. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 652 feet, cased to 409. Land-surface datum is 154.00 feet above msl. Highest water level 92.3 below lsd, Apr. 14, 1948; lowest 108.7 below lsd, Sept. 9, 1954. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 24	100.1	May 21	102.0	July 27	104.2	Oct. 18	104.7
Apr. 8	99.6	July 8	103.3	Sept. 9	108.7	Nov. 29	101.3

25. U. S. Army. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 27, T. 2 N., R. 23 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 609 feet, cased to 456. Land-surface datum is 196.72 feet above msl. Highest water level 98.5 below lsd, Oct. 30, 1947; lowest 121.4 below lsd, May 11, 1953. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	112.5	May 21	112.9	July 29	113.6	Oct. 20	115.4
Feb. 24	112.8	July 8	113.6	Sept. 9	113.8	Nov. 30	114.0
Apr. 8	112.8	.....	.....	.....	.....	.....	.....

27. U. S. Army. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 7, T. 1 S., R. 23 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 591 feet, cased to 422. Land-surface datum is 89.33 feet above msl. Highest water level 24.0 below lsd, Apr. 14, 1948; lowest 45.7 below lsd, Oct. 20, 1954. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	31.9	May 21	35.8	July 29	43.2	Oct. 20	45.7
Feb. 24	31.7	July 8	37.7	Sept. 8	40.2	Nov. 30	31.4
Apr. 8	32.4	.....	.....	.....	.....	.....	.....

29. U. S. Army. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 1 N., R. 24 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 766 feet, cased to 524. Land-surface datum is 178.03 feet above msl. Highest water level 99.8 below lsd, Oct. 28, 1947; lowest 111.1 below lsd, June 18, 1953. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	106.6	May 21	107.4	July 29	108.4	Oct. 20	110.8
Feb. 24	106.0	July 8	108.6	Sept. 8	109.2	Nov. 30	110.2
Apr. 8	107.4						

31. U. S. Army. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 33, T. 2 N., R. 25 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 690 feet, cased to 527. Land-surface datum is 135.12 feet above msl. Highest water level 46.8 below lsd, Apr. 14, 1948; lowest 53.4 below lsd, Nov. 30, 1954. Records available: 1948-54. Jan. 12, 52.3; Feb. 24, 52.2; Apr. 8, 51.8; May 21, 52.2; July 8, 53.0; Nov. 30, 53.4.

#### Okeechobee County

2. U. S. Geol. Survey. On Florida Highway 66, 1 mile west of Bassinger. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 33, T. 35 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18, gravel packed 16-21. Land-surface datum is 47.80 feet above msl. Highest water level 48.10 above msl, Oct. 9, 1953; lowest 39.51 above msl, June 17-18, 1949. Records available: 1949-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.68	43.92	43.37	42.93	42.38	43.12	44.64	45.25	45.85	45.22	44.68	44.84
2	44.67	43.90	43.35	42.90	42.36	43.20	44.45	45.17	45.64	45.69	44.63	44.80
3	44.65	43.88	43.33	42.88	42.33	43.66	44.50	45.08	45.50	45.52	44.58	44.74
4	44.63	43.85	43.31	42.86	42.30	44.41	44.40	45.00	45.39	45.35	44.55	44.68
5	44.60	43.81	43.29	42.82	42.27	44.80	44.35	44.94	45.25	45.18	44.52	44.65
6	44.56	43.78	43.33	42.77	42.23	44.81	44.45	44.87	45.17	45.11	44.48	44.63
7	44.52	43.75	43.47	42.75	42.18	44.74	44.49	44.81	45.08	.....	44.45	44.57
8	44.48	43.74	43.52	42.89	42.15	44.68	44.58	44.77	45.00	.....	44.41	44.54
9	44.48	43.72	43.55	42.85	42.10	44.58	44.64	44.73	44.93	.....	44.38	44.51
10	44.48	43.70	43.57	42.82	42.07	44.50	44.56	44.77	44.86	.....	44.35	44.47
11	44.46	43.68	43.58	42.78	42.03	44.41	44.53	45.73	44.78	.....	44.35	44.42
12	44.40	43.66	43.58	42.75	42.00	44.33	45.60	45.77	45.30	.....	44.33	44.39
13	44.38	43.63	43.57	42.77	41.98	44.37	45.73	45.52	46.05	.....	44.30	44.37
14	44.37	43.61	43.53	42.82	41.94	44.28	46.28	45.43	46.34	.....	45.37	44.44
15	44.36	43.58	43.47	42.83	41.91	44.24	46.16	45.67	45.95	.....	45.31	44.37
16	44.34	43.57	43.40	42.82	41.89	44.35	46.08	45.50	46.48	.....	45.87	44.33
17	44.30	43.55	43.35	42.78	41.86	44.36	45.85	45.30	46.19	.....	45.75	44.30
18	44.28	43.52	43.30	42.74	41.82	45.10	45.65	45.20	46.50	.....	45.63	44.72
19	44.26	43.50	43.28	42.70	41.78	45.26	45.50	46.38	46.19	.....	45.53	44.75
20	44.24	43.48	43.27	42.68	41.76	45.26	45.78	45.83	45.88	.....	45.63	44.68
21	44.22	43.51	43.26	42.66	41.72	45.18	45.56	45.61	45.69	.....	45.42	44.62
22	44.20	43.52	43.23	42.64	41.69	45.26	45.35	45.51	45.87	.....	45.34	44.55
23	44.16	43.46	43.20	42.62	41.66	45.26	45.22	45.95	45.80	.....	45.42	44.50
24	44.14	43.45	43.16	42.60	41.62	45.16	46.57	45.48	45.65	.....	45.27	44.45
25	44.11	43.43	43.14	42.57	41.59	45.05	46.31	45.35	45.58	.....	45.19	44.40
26	44.08	43.41	43.12	42.54	41.57	44.97	46.20	45.22	45.51	.....	45.09	44.35
27	44.07	43.40	43.09	42.50	41.88	44.87	45.97	45.13	45.49	.....	45.04	44.31
28	44.03	43.39	43.07	42.48	42.02	44.76	45.80	45.08	45.38	44.73	44.98	44.29
29	44.00		43.05	42.44	42.08	44.67	45.61	46.36	45.24	44.70	44.92	44.26
30	43.98		43.02	42.40	42.42	44.60	45.45	46.10	45.15	44.94	44.87	44.23
31	43.95		42.97		42.98		45.35	45.96		44.78		44.20

3. U. S. Geol. Survey. On Florida Highway 15, 2 miles south of Fort Drum. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, T. 34 S., R. 35 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 22 feet, cased to 19, gravel packed 14-22. Land-surface datum is 62 feet above msl. Highest water level 61.82 above msl, Aug. 28, 1949; lowest 56.75 above msl, Mar. 31, 1949, May 20, 1950. Records available: 1948-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.50	59.57	59.43	59.00	58.52	59.50	59.76	60.18	.....	60.83	59.74	59.82
2	59.47	59.55	59.35	58.96	58.41	60.10	59.77	60.90	.....	61.36	59.69	59.78
3	59.52	59.51	59.31	58.99	58.36	60.91	59.61	61.05	.....	61.10	59.63	59.73
4	59.45	59.46	59.25	59.03	58.32	61.19	59.56	60.71	.....	60.88	59.60	59.69
5	59.42	59.42	59.20	58.94	58.28	61.19	59.95	60.40	.....	60.68	59.58	59.66

## 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	59.38	59.38	59.95	58.90	58.24	60.91	59.78	60.18	.....	60.58	59.53	59.80
7	59.35	59.35	60.05	58.87	58.19	60.68	61.02	60.27	.....	60.55	59.50	59.62
8	59.33	59.74	59.74	59.38	58.15	60.43	61.12	60.00	.....	60.43	59.47	59.59
9	59.55	59.52	60.03	59.27	58.10	60.23	60.85	60.16	.....	61.41	59.45	59.56
10	59.48	59.44	59.77	59.21	58.07	60.08	60.60	60.75	.....	61.34	59.41	59.53
11	59.45	59.39	59.65	59.14	58.03	59.93	60.65	61.15	.....	61.12	59.94	59.51
12	59.35	59.35	59.55	59.04	58.00	59.87	61.28	60.87	.....	60.94	60.02	59.50
13	59.33	59.31	59.67	59.00	58.25	59.80	61.00	60.75	.....	60.73	59.76	59.93
14	59.32	59.29	59.55	58.94	58.06	59.74	61.12	60.56	.....	61.18	61.15	59.73
15	59.32	59.25	59.43	58.90	58.00	60.90	60.87	60.47	.....	60.90	61.02	59.63
16	59.30	59.23	59.35	58.83	58.42	61.10	61.02	60.80	.....	60.62	60.92	59.54
17	59.27	59.21	59.30	58.76	58.47	60.85	61.04	60.26	.....	60.45	61.16	59.50
18	59.28	59.18	59.28	58.71	58.41	61.20	60.73	60.15	.....	60.32	60.98	60.33
19	60.77	59.15	59.85	58.66	58.30	61.32	60.54	60.45	.....	60.21	60.81	59.97
20	60.52	59.13	59.98	58.62	59.00	61.06	60.62	60.00	.....	60.13	60.67	59.83
21	60.35	59.58	59.65	58.65	59.03	60.84	60.27	60.85	.....	60.04	60.52	59.75
22	60.24	59.43	59.54	58.69	58.91	61.08	60.10	61.20	.....	59.95	60.43	59.69
23	60.10	59.35	59.45	58.72	58.80	60.72	60.00	60.95	.....	59.90	60.71	59.65
24	60.00	59.70	59.37	58.65	58.68	60.63	60.85	60.71	.....	59.85	60.26	59.62
25	59.93	59.55	59.30	58.61	58.58	60.43	60.32	60.49	.....	59.83	60.16	59.60
26	59.85	59.46	59.25	58.55	58.52	60.28	61.18	60.35	.....	59.78	60.07	59.56
27	59.80	59.39	59.20	58.50	59.24	60.12	61.03	60.21	.....	59.75	60.02	59.54
28	59.72	59.60	59.15	58.47	59.27	59.98	60.85	60.42	.....	59.71	59.96	59.50
29	59.68		59.12	58.42	59.41	59.89	60.57	60.47	61.20	59.90	59.92	59.48
30	59.65		59.08	58.63	59.77	59.81	60.35	60.05	60.97	60.40	59.86	59.45
31	59.60		59.04		59.65		60.54	60.57		59.85		59.45

4. U. S. Geol. Survey. On Florida Highway 70. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 37 S., R. 34 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 17, gravel packed 14-21. Land-surface datum is 30.50 feet above msl. Highest water level 30.35 above msl, Oct. 2, 1951; lowest 24.24 above msl, June 7, 1949. Records available: 1949-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.16	26.52	26.60	26.20	26.64	.....	.....	27.75	29.70	29.48	27.45	27.38
2	27.14	26.50	26.58	26.17	26.63	.....	27.67	28.27	29.18	29.65	27.39	27.36
3	27.13	26.48	26.55	26.15	26.62	.....	27.62	27.98	28.67	28.85	27.34	27.32
4	27.10	26.45	26.48	26.12	26.64	.....	27.56	27.74	29.35	28.45	27.31	27.27
5	27.08	26.42	26.42	26.08	26.63	.....	28.30	27.64	28.57	28.24	27.28	27.25
6	27.07	26.40	26.40	26.04	26.58	.....	28.55	27.55	29.48	28.84	27.25	27.30
7	27.04	26.38	26.74	26.02	26.55	.....	29.13	27.48	28.66	28.52	27.22	27.23
8	27.02	26.51	26.75	26.12	26.48	.....	29.26	27.44	28.32	28.30	27.18	e27.18
9	27.00	26.52	26.88	26.13	26.37	.....	28.55	27.48	28.28	29.10	27.16	e27.15
10	27.03	26.49	26.96	26.17	26.25	.....	28.26	27.82	28.05	29.20	27.13	e27.11
11	27.03	26.45	26.99	26.19	26.13	.....	28.84	27.72	27.94	28.58	27.27	e27.07
12	26.98	26.40	26.97	26.16	27.10	.....	29.85	27.56	29.60	28.29	27.40	e27.03
13	26.95	26.37	26.95	26.13	e27.42	.....	29.02	27.45	29.00	28.10	27.59	e27.00
14	26.93	26.35	26.95	26.07	e27.34	.....	29.75	27.67	28.55	29.25	28.71	e27.29
15	26.92	26.34	26.98	26.02	e27.26	.....	29.40	27.88	28.24	28.38	28.33	27.29
16	26.90	26.34	26.96	25.99	e27.15	.....	29.72	27.69	28.05	28.03	28.13	27.27
17	26.87	26.32	26.92	25.96	e27.10	.....	28.95	27.50	27.97	27.88	28.00	27.25
18	26.83	26.30	26.87	25.93	e27.05	.....	28.52	28.40	28.40	27.82	27.88	27.88
19	26.80	26.30	26.84	25.90	e27.00	.....	28.37	28.00	29.37	27.75	27.79	27.78
20	26.80	26.28	26.94	25.95	e26.95	.....	28.35	27.75	28.60	27.71	27.99	27.68
21	26.78	26.34	26.92	25.91	e26.90	.....	28.12	27.62	28.28	27.65	27.73	27.61
22	26.76	26.35	26.86	26.03	.....	.....	28.32	27.70	28.62	27.60	27.68	27.56
23	26.74	26.33	26.78	26.35	.....	.....	28.02	27.55	29.10	27.56	27.89	27.50
24	26.71	26.38	26.68	26.47	.....	.....	28.25	27.44	28.77	27.53	27.68	27.47
25	26.69	26.43	26.58	26.57	.....	.....	27.98	27.38	28.40	27.52	27.62	27.45
26	26.67	26.45	26.48	26.63	.....	.....	28.65	27.30	28.22	27.47	27.56	27.40
27	26.65	26.40	26.40	26.67	.....	.....	28.34	27.25	28.15	27.40	27.52	27.37
28	26.62	26.55	26.35	26.70	.....	.....	28.10	28.82	28.00	27.42	27.48	27.34
29	26.59		26.30	26.68	.....	.....	27.93	28.95	29.10	27.37	27.45	27.30
30	26.57		26.26	26.64	.....	.....	27.84	28.46	28.38	27.76	27.40	27.27
31	26.55		26.23		.....	.....	27.88	29.40		27.53		27.26

e Estimated.

## Orange County

47. Orange County. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 26, T. 22 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 8 to 6 inches, depth 350 feet, cased to 328. Land-surface datum is 72.12 feet above msl. Highest water level 8.00 above lsd, Sept. 30, 1930; lowest 8.90 below lsd, June 3, 1953. Records available: 1930-33, 1943-54.

Daily mean water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+1.02	-1.36	-2.60	-3.69	-2.73	-4.02	-4.22	-1.96	-3.23	-3.82	-4.18	-4.80
2	.89	1.37	2.69	3.76	3.58	4.03	4.21	1.94	3.29	3.82	4.21	4.77
3	.84	1.37	2.71	3.89	3.81	3.84	4.24	1.70	3.34	3.82	4.30	4.80
4	.84	1.44	2.80	3.83	3.92	3.15	4.28	1.88	3.39	3.85	4.33	4.87
5	.79	1.54	2.84	3.96	3.92	2.68	4.29	2.11	3.39	3.90	4.37	4.88
6	.66	1.64	2.83	4.06	3.98	3.07	4.27	2.30	3.40	3.95	4.43	4.81
7	.46	1.71	2.83	4.03	4.07	3.20	4.02	2.32	3.44	4.05	4.50	4.90
8	.32	1.70	2.82	3.84	4.18	3.25	3.04	1.82	3.50	3.59	4.55	4.92
9	.18	1.74	2.78	3.82	4.27	3.33	3.27	1.46	3.57	1.43	4.62	4.90
10	.11	1.80	2.78	3.82	4.35	3.41	3.40	.47	3.64	1.83	4.65	4.98
11	+.04	1.85	2.83	3.78	4.35	3.50	3.15	1.17	3.73	2.25	4.67	5.03
12	-.08	2.00	2.89	3.82	4.36	3.60	1.75	1.59	3.75	2.42	4.56	5.03
13	.18	2.10	2.95	3.93	4.36	3.69	2.58	1.87	3.77	2.57	4.53	5.02
14	.24	2.14	2.96	3.95	4.45	3.72	3.00	2.12	3.71	2.60	4.19	4.92
15	.24	2.17	3.08	4.03	4.53	3.73	3.16	2.30	3.62	2.62	3.71	4.93
16	.25	2.20	3.20	4.02	4.57	3.74	3.25	2.45	3.62	2.82	3.83	5.03
17	.40	2.23	3.24	4.05	4.57	3.81	3.38	2.61	3.62	3.00	3.92	5.03
18	.53	2.28	3.24	4.12	4.60	3.82	3.53	2.77	3.62	3.12	3.91	4.86
19	.60	2.32	3.19	4.15	4.67	3.77	3.68	2.83	3.64	3.21	3.93	4.75
20	.65	2.35	3.13	4.18	4.66	3.77	3.78	2.89	3.67	3.25	3.97	4.85
21	.72	2.37	3.16	4.20	4.50	3.80	3.90	2.97	3.72	3.45	4.08	4.92
22	.73	2.43	3.25	4.21	4.13	3.85	3.99	3.01	3.75	3.60	4.18	4.97
23	.83	2.45	3.29	4.20	3.95	3.90	4.07	3.07	3.75	3.73	4.27	5.02
24	.92	2.35	3.34	4.18	3.96	3.93	3.97	3.08	3.79	3.80	4.30	5.02
25	1.00	2.41	3.37	4.12	4.01	3.94	3.18	3.08	3.79	3.85	4.37	5.09
26	1.04	2.43	3.40	4.07	4.15	3.88	.90	3.16	3.78	3.92	4.45	5.11
27	1.06	2.49	3.44	4.03	4.07	3.92	1.40	3.25	3.77	3.97	4.50	5.14
28	1.11	2.46	3.45	4.05	4.08	3.98	.20	3.28	3.76	4.00	4.55	5.16
29	1.19		3.50	4.12	4.12	4.07	.42	3.07	3.79	4.01	4.67	5.21
30	1.25		3.57	3.75	4.03	4.16	1.41	3.02	3.79	4.03	4.80	5.30
31	1.30		3.62		4.05		1.78	3.13		4.10		5.33

47-B. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 26, T. 22 S., R. 28 E. Drilled observation water-table well in sand, diameter 6 inches, depth 17 feet, cased to 17. Highest water level 4.36 above lsd, Oct. 18, 1948; lowest 6.66 below lsd, Apr. 9, 1953. Records available: 1948-54.

Daily mean water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+3.60	+2.40	+0.96	-0.37	-0.96	-1.90	-1.87	-0.87	-0.74	-1.40	-1.56	-2.15
2	3.59	2.37	.90	.40	.96	1.90	1.89	.64	.79	1.43	1.60	2.18
3	3.58	2.30	.84	.45	.98	1.81	1.91	.60	.83	1.45	1.63	2.20
4	3.58	2.23	.78	.48	1.03	1.64	1.94	.59	.86	1.48	1.67	2.23
5	3.57	2.18	.74	.54	1.07	1.54	1.97	.59	.87	1.50	1.70	2.27
6	3.51	2.11	.70	.58	1.13	1.53	1.96	.59	.90	1.53	1.72	2.28
7	3.48	2.02	.69	.60	1.19	1.52	1.70	.58	.91	1.58	1.77	2.30
8	3.43	2.00	.65	.61	1.24	1.52	1.41	.54	.96	1.44	1.80	2.33
9	3.39	1.95	.60	.64	1.32	1.52	1.33	.48	.99	1.10	1.82	2.35
10	3.37	1.90	.57	.68	1.40	1.53	1.30	.40	1.01	1.04	1.87	2.40
11	3.34	1.86	.52	.71	1.46	1.53	1.21	.38	1.04	1.02	1.90	2.41
12	3.29	1.80	.48	.75	1.48	1.54	1.11	.37	1.07	1.01	1.90	2.45
13	3.24	1.72	.44	.79	1.50	1.55	1.07	.37	1.08	1.01	1.90	2.48
14	3.20	1.68	.41	.80	1.52	1.57	1.06	.37	1.10	1.00	1.83	2.48
15	3.18	1.58	.36	.85	1.56	1.58	1.06	.38	1.11	.99	1.74	2.49
16	3.12	1.55	.30	.88	1.60	1.58	1.07	.40	1.14	1.00	1.74	2.51
17	3.09	1.50	.24	.91	1.64	1.59	1.06	.41	1.17	1.03	1.78	2.54
18	3.04	1.43	.18	.96	1.67	1.60	1.06	.46	1.19	1.05	1.80	2.55
19	3.00	1.38	.15	1.00	1.71	1.60	1.08	.50	1.21	1.09	1.82	2.56
20	2.95	1.32	.14	1.03	1.76	1.61	1.11	.54	1.23	1.10	1.85	2.59
21	2.92	1.30	.12	1.06	1.79	1.63	1.14	.59	1.24	1.15	1.89	2.60
22	2.89	1.22	.06	1.10	1.82	1.65	1.17	.61	1.23	1.20	1.90	2.63
23	2.84	1.19	+.02	1.11	1.84	1.68	1.20	.64	1.24	1.25	1.90	2.65
24	2.79	1.15	0.00	1.12	1.86	1.70	1.15	.66	1.23	1.30	1.93	2.63
25	2.73	1.13	-.08	1.15	1.87	1.70	1.08	.67	1.19	1.33	1.97	2.62

## 47-B--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+2.70	+1.10	-0.10	-1.18	-1.89	-1.69	-1.00	-0.68	-1.22	-1.37	-2.00	-2.70
27	2.66	1.07	.15	1.19	1.90	1.70	.90	.70	1.32	1.40	2.02	2.73
28	2.62	1.01	.20	1.21	1.90	1.73	.79	.67	1.36	1.45	2.05	2.77
29	2.55		.21	1.25	1.90	1.78	.71	.64	1.38	1.48	2.09	2.79
30	2.51		.27	1.12	1.90	1.82	.69	.65	1.39	1.47	2.11	2.80
31	2.48		.30		1.90		.68	.70		1.50		2.82

47-C. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 26, T. 22 S., R. 28 E. Drilled observation water-table well in sand, diameter 6 inches, depth 46 feet, cased to 46. Highest water level 29.58 below lsd, Nov. 11, 1948; lowest 39.35 below lsd, June 4, 1953. Records available: 1948-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.67	31.49	31.56	32.16	32.70	33.24	33.72	34.05	34.12	34.35	34.60	34.89
2	31.66	31.47	31.62	32.19	32.71	33.24	33.74	34.05	34.13	34.35	34.61	34.90
3	31.65	31.45	31.64	32.20	32.72	33.26	33.75	34.06	34.14	34.36	34.62	34.91
4	31.64	31.44	31.67	32.23	32.73	33.28	33.76	34.07	34.15	34.37	34.63	34.92
5	31.63	31.44	31.68	32.25	32.75	33.30	33.78	34.08	34.15	34.38	34.64	34.92
6	31.61	31.45	31.67	32.28	32.77	33.33	33.80	34.08	34.16	34.39	34.64	34.91
7	31.63	31.46	31.68	32.28	32.79	33.35	33.82	34.07	34.17	34.40	34.65	34.94
8	31.62	31.45	31.69	32.29	32.81	33.36	33.83	34.08	34.17	34.42	34.67	34.95
9	31.61	31.45	31.68	32.32	32.83	33.37	33.85	34.08	34.17	34.42	34.68	34.96
10	31.59	31.44	31.68	32.35	32.85	33.38	33.85	34.08	34.18	34.43	34.69	34.98
11	31.57	31.43	31.70	32.37	32.87	33.39	33.86	34.07	34.18	34.44	34.70	34.99
12	31.62	31.46	31.73	32.38	32.88	33.40	33.86	34.08	34.19	34.44	34.70	35.00
13	31.63	31.46	31.75	32.39	32.88	33.42	33.87	34.08	34.20	34.45	34.71	35.00
14	31.62	31.46	31.76	32.40	32.91	33.44	33.88	34.08	34.21	34.44	34.72	35.01
15	31.58	31.46	31.84	32.42	32.94	33.45	33.89	34.07	34.22	34.43	34.72	35.02
16	31.54	31.49	31.89	32.43	32.95	33.46	33.90	34.07	34.23	34.46	34.73	35.03
17	31.55	31.48	31.92	32.44	32.98	33.47	33.91	34.07	34.24	34.48	34.74	35.04
18	31.57	31.48	31.90	32.48	32.99	33.48	33.91	34.08	34.24	34.49	34.74	35.05
19	31.57	31.49	31.88	32.49	33.00	33.50	33.93	34.08	34.25	34.49	34.75	35.05
20	31.55	31.50	31.87	32.51	33.02	33.51	33.94	34.08	34.25	34.49	34.76	35.06
21	31.53	31.49	31.90	32.53	33.05	33.54	33.95	34.08	34.26	34.50	34.76	35.08
22	31.52	31.51	31.96	32.54	33.07	33.57	33.95	34.08	34.27	34.51	34.77	35.09
23	31.53	31.53	31.99	32.56	33.09	33.58	33.96	34.08	34.28	34.51	34.78	35.10
24	31.54	31.48	32.02	32.58	33.10	33.60	33.96	34.09	34.29	34.53	34.79	35.11
25	31.54	31.50	32.03	32.59	33.12	33.62	33.97	34.08	34.30	34.55	34.80	35.12
26	31.53	31.52	32.04	32.61	33.15	33.64	33.99	34.09	34.30	34.55	34.83	35.13
27	31.52	31.53	32.05	32.63	33.16	33.65	34.00	34.11	34.31	34.56	34.84	35.14
28	31.55	31.51	32.06	32.64	33.17	33.66	34.01	34.11	34.32	34.56	34.85	35.15
29	31.50		32.08	32.65	33.19	33.68	34.03	34.10	34.33	34.56	34.86	35.17
30	31.50		32.10	32.68	33.21	33.70	34.04	34.10	34.34	34.57	34.88	35.18
31	31.49		32.14		33.23		34.05	34.11		34.57		35.20

## Osceola County

171. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 28, T. 25 S., R. 34 E. Jetted observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 19 feet, cased to 13, gravel packed 11-19. Land-surface datum is 31.60 feet above msl. Highest water level 32.75 above msl, Sept. 7, 1953; lowest 28.28 above msl, July 4, 1952. Records available: 1950-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.34	30.88	.....	.....	29.78	.....	.....	.....	31.91	31.57	30.95	31.04
2	31.33	30.86	.....	.....	29.70	.....	.....	.....	31.78	31.87	30.90	31.01
3	31.38	30.81	.....	.....	30.20	.....	.....	.....	31.69	31.94	30.81	30.96
4	31.32	30.73	.....	.....	29.94	.....	.....	.....	31.64	31.75	30.77	30.92
5	31.32	30.70	.....	.....	29.76	.....	.....	.....	31.58	31.65	30.73	30.90
6	31.29	30.66	31.00	.....	29.62	.....	30.50	.....	31.55	31.56	30.69	31.09
7	31.25	30.65	31.25	.....	29.55	.....	31.12	.....	31.61	31.70	30.64	30.95
8	31.23	.....	31.21	.....	29.46	.....	31.54	.....	31.55	32.45	30.59	30.90
9	31.23	.....	31.20	.....	29.38	.....	31.57	.....	31.53	32.70	30.56	30.88
10	31.22	.....	31.11	.....	29.32	.....	31.50	.....	31.41	32.15	30.63	30.82
11	31.45	.....	31.03	.....	29.26	.....	31.64	.....	31.35	31.97	30.81	30.80
12	31.40	.....	30.94	.....	29.60	.....	31.50	.....	31.36	31.83	31.10	30.78
13	31.40	.....	31.01	30.64	30.24	.....	31.42	.....	31.39	31.73	31.08	31.18
14	31.40	.....	30.90	30.64	29.93	.....	31.36	.....	31.47	31.78	32.14	31.10
15	31.38	.....	30.73	30.30	29.76	.....	31.78	.....	31.62	31.77	32.20	31.05

## 171--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	31.30	.....	30.63	30.20	29.63	.....	31.80	.....	31.65	31.70	31.85	31.01
17	31.26	.....	30.59	30.10	29.53	.....	31.72	.....	31.55	31.60	31.75	31.00
18	31.25	.....	30.54	30.01	29.40	.....	31.65	31.57	31.52	31.52	31.66	31.30
19	31.25	.....	30.99	29.93	29.26	.....	31.56	31.35	31.49	31.42	31.59	31.25
20	31.23	.....	31.07	29.90	29.43	.....	31.50	31.25	31.45	31.34	31.50	31.23
21	31.20	.....	30.98	30.34	29.16	.....	31.50	31.20	31.36	31.26	31.43	31.19
22	31.16	.....	.....	30.42	29.09	.....	31.40	31.40	31.82	31.18	31.38	31.15
23	31.10	.....	.....	30.84	29.04	.....	31.53	31.35	32.22	31.12	31.44	31.12
24	31.08	.....	.....	30.53	28.98	.....	31.60	31.28	32.05	31.08	31.33	31.09
25	31.08	.....	.....	30.35	28.92	.....	32.37	31.20	31.90	31.15	31.27	31.07
26	31.04	.....	.....	30.51	28.90	.....	32.07	31.12	31.85	31.02	31.21	31.05
27	31.02	.....	.....	30.15	31.00	.....	32.00	31.00	31.77	30.98	31.17	31.15
28	30.96	.....	.....	30.02	31.50	.....	.....	31.33	31.70	30.92	31.13	31.10
29	30.94	.....	.....	29.93	31.60	.....	.....	31.78	31.60	30.90	31.10	31.08
30	30.91	.....	.....	29.85	31.88	.....	.....	32.00	31.52	31.18	31.05	31.04
31	30.90	.....	.....	.....	.....	.....	.....	32.28	.....	31.00	.....	31.02

179. U. S. Geol. Survey. On U. S. Highway 192, near Deer Park. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T. 27 S., R. 34 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 18 feet, cased to 18, gravel packed 13-18. Land-surface datum is 49 feet above msl. Highest water level 48.26 above msl, Oct. 9, 1953; lowest 43.24 above msl, June 8, 1949. Records available: 1949-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.67	46.06	45.51	45.26	44.78	46.68	46.89	46.75	47.07	47.08	46.81	46.65
2	46.62	46.05	45.50	45.24	44.76	46.99	46.78	46.70	46.89	47.57	46.78	46.63
3	46.65	46.02	45.49	45.20	44.73	47.27	46.73	46.65	46.80	47.21	46.74	46.58
4	46.64	45.97	45.54	45.18	44.70	47.31	46.65	46.56	46.75	47.15	46.72	46.54
5	46.60	45.94	45.58	45.15	44.66	47.02	46.60	46.48	46.67	47.08	46.69	46.52
6	46.53	45.91	45.69	45.10	44.65	46.92	46.61	46.66	46.59	47.05	46.66	46.55
7	46.47	45.88	45.90	45.36	44.60	46.82	46.69	46.70	46.70	47.02	46.56	46.48
8	46.43	45.87	45.92	45.37	44.57	46.77	46.85	47.17	46.63	47.77	46.52	46.43
9	46.42	45.85	45.92	45.35	44.55	46.73	46.81	46.98	46.55	47.83	46.49	46.42
10	46.40	45.82	45.88	45.31	44.52	46.68	46.77	47.22	46.47	47.45	46.45	46.38
11	46.89	45.80	45.81	45.27	44.48	46.63	46.82	47.70	46.40	47.25	46.44	46.35
12	46.80	45.77	45.75	45.16	44.45	46.98	46.79	47.12	46.39	47.15	46.58	46.33
13	46.76	45.75	45.71	45.13	44.60	46.84	46.70	47.00	46.57	47.08	46.60	46.48
14	46.74	45.72	45.67	45.20	44.48	46.76	46.70	46.95	46.74	47.52	47.58	46.64
15	46.73	45.69	45.60	45.14	44.45	47.93	46.72	46.90	46.72	47.16	47.08	46.53
16	46.70	45.66	45.55	45.10	44.42	47.17	46.88	46.84	46.67	47.05	46.98	46.43
17	46.66	45.63	45.52	45.07	44.40	47.42	46.85	46.80	46.51	46.98	47.03	46.35
18	46.60	45.61	45.49	45.04	44.38	48.13	46.77	.....	46.65	46.97	47.08	46.69
19	46.56	45.60	45.63	44.99	44.36	47.85	46.68	.....	46.67	46.91	46.98	46.69
20	46.50	45.59	45.61	44.97	44.35	47.17	46.55	.....	46.60	46.90	46.95	46.65
21	46.45	45.73	45.58	44.97	44.32	47.05	46.48	.....	46.42	46.87	46.91	46.58
22	46.42	45.63	45.54	44.97	44.30	47.00	46.42	.....	47.30	46.85	46.89	46.49
23	46.37	45.58	45.50	44.97	44.28	46.97	46.37	.....	47.10	46.82	46.89	46.43
24	46.33	45.65	45.49	44.95	44.25	46.93	46.35	.....	47.02	46.80	46.86	46.35
25	46.31	45.60	45.46	44.94	44.23	47.35	46.39	.....	47.37	46.85	46.84	46.30
26	46.28	45.56	45.43	44.90	44.20	47.07	46.47	.....	48.08	46.80	46.82	46.26
27	46.25	45.55	45.40	44.87	45.01	46.96	46.54	.....	47.58	46.67	46.80	46.24
28	46.20	45.54	45.38	44.85	45.15	46.90	47.16	.....	47.29	46.61	46.77	46.21
29	46.15	.....	45.35	44.82	46.15	46.85	46.94	.....	47.18	46.59	46.75	46.19
30	46.12	.....	45.32	44.80	46.64	46.80	46.82	.....	47.12	47.15	46.70	46.17
31	46.10	.....	45.29	.....	46.70	.....	46.79	46.55	.....	46.88	.....	46.15

180. U. S. Geol. Survey. On U. S. Highway 192, 0.3 mile east of Florida Highway 15, at Holopaw. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 27 S., R. 32 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 12 feet, cased to 10, gravel packed 7-12. Land-surface datum is 74.50 feet above msl. Highest water level 74.45 above msl, Oct. 9, 1953; lowest 69.55 above msl, June 20, 1950. Records available: 1949-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.96	72.40	72.50	72.00	72.81	.....	72.15	73.50	73.57	73.88	72.08	72.40
2	72.94	72.44	72.41	71.95	72.57	.....	72.05	73.42	73.39	73.95	71.95	72.35
3	73.44	72.30	72.54	71.90	72.40	.....	71.95	73.30	73.10	73.58	71.88	72.25
4	73.05	72.24	72.29	72.50	72.24	.....	71.87	72.92	72.85	73.37	71.85	72.20
5	72.93	72.17	72.20	73.18	72.07	.....	72.26	73.35	72.60	73.08	71.83	72.15

## 180--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	72.73	72.12	73.50	72.64	71.95	.....	72.32	73.68	73.64	72.96	71.77	72.75
7	72.63	72.09	73.64	74.15	71.88	.....	72.98	73.71	73.47	.....	71.73	72.52
8	72.60	72.37	73.10	73.56	71.83	.....	73.28	73.42	73.18	.....	71.70	72.39
9	72.95	72.21	73.18	73.35	71.75	.....	72.97	73.25	73.13	.....	71.67	72.32
10	72.85	72.15	72.85	73.07	71.69	.....	73.37	73.88	72.73	.....	71.64	72.14
11	74.03	72.22	72.70	72.83	71.64	.....	73.64	73.58	72.94	.....	71.85	72.10
12	73.62	72.18	72.59	72.67	72.73	.....	73.32	73.30	72.70	.....	72.91	72.08
13	73.52	72.08	72.96	72.77	73.03	.....	73.43	72.94	73.00	.....	72.07	73.10
14	73.59	72.05	72.71	72.53	72.97	.....	73.65	73.43	72.85	.....	73.57	73.21
15	73.37	72.13	72.40	72.58	72.50	.....	73.73	72.95	72.49	.....	73.53	72.84
16	73.28	72.07	72.25	72.42	72.30	.....	73.66	72.68	72.35	.....	73.49	72.65
17	72.99	72.03	72.23	72.28	72.18	.....	73.62	72.46	72.25	.....	73.40	72.62
18	72.92	72.00	72.21	72.21	72.02	.....	73.25	73.50	72.72	.....	73.64	73.65
19	72.96	71.98	73.35	72.18	71.90	.....	72.80	73.27	72.53	.....	73.35	73.45
20	73.07	72.25	73.66	72.26	72.30	.....	72.55	72.86	72.25	.....	73.10	73.22
21	72.82	72.65	73.32	72.14	72.03	.....	72.35	72.62	72.10	.....	72.88	73.06
22	72.71	72.42	73.02	73.33	71.85	.....	72.23	73.47	72.81	.....	72.80	72.96
23	72.67	72.30	72.80	73.15	71.74	73.10	72.40	73.18	72.75	.....	73.45	72.89
24	72.57	72.88	72.65	72.85	71.65	72.84	72.27	.....	72.60	.....	73.04	72.84
25	72.68	72.75	72.53	72.70	71.57	73.56	72.07	.....	73.59	.....	72.82	72.81
26	72.53	72.64	72.45	72.64	71.54	73.20	72.44	.....	74.18	.....	72.64	72.80
27	72.50	72.55	72.35	72.50	73.54	72.79	72.59	.....	73.90	.....	72.60	72.77
28	72.38	72.73	72.27	72.37	73.65	72.54	73.64	.....	73.96	71.97	72.55	72.74
29	72.65	.....	72.22	72.25	.....	72.35	73.41	.....	73.65	71.94	72.50	72.66
30	72.37	.....	72.12	73.13	.....	72.23	73.06	.....	73.40	72.62	72.42	72.62
31	72.32	.....	72.06	.....	.....	.....	73.77	73.87	.....	72.23	.....	72.59

e Estimate.

181. U. S. Geol. Survey. On U. S. Highway 192. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, T. 26 S., R. 31 E. . Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 15 feet, cased to 14, gravel packed 11-15. Land-surface datum is 79 feet above msl. Highest water level 79.53 above msl, Sept. 27, 1953; lowest 73.50 above msl, June 9, 1949. Records available: 1948-54.

## Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.00	76.25	75.74	75.50	75.62	75.55	76.60	76.60	76.25	77.23	76.38	76.01
2	76.97	76.22	75.72	75.48	75.55	75.47	76.55	76.55	76.22	77.99	76.35	75.98
3	76.96	76.20	75.70	75.46	75.48	76.35	76.49	76.48	76.15	77.54	76.31	75.95
4	76.93	76.16	75.67	75.43	75.42	76.80	76.43	76.42	76.10	77.36	76.28	75.92
5	76.90	76.13	75.65	75.45	75.36	76.85	76.40	76.37	76.16	77.23	76.26	75.89
6	76.85	76.10	75.78	75.40	75.32	76.64	76.37	76.33	76.35	77.15	76.22	75.90
7	76.80	76.07	75.95	75.76	75.29	76.52	77.60	76.35	76.42	77.10	76.18	75.86
8	76.76	76.09	75.96	75.95	75.25	76.40	77.38	76.29	76.37	77.66	76.15	75.83
9	76.75	76.04	75.94	75.96	75.21	76.31	77.56	76.25	76.33	77.78	76.12	75.76
10	76.71	76.02	75.90	75.90	75.18	76.21	77.30	76.22	76.23	77.50	76.09	75.73
11	77.09	76.00	75.85	75.83	75.14	76.15	77.20	76.20	76.15	77.35	76.12	75.70
12	76.87	75.97	75.79	75.76	75.12	77.33	77.08	76.17	76.08	77.22	76.08	75.68
13	76.80	75.95	75.75	75.72	75.30	77.06	76.99	76.13	76.04	77.10	76.06	75.69
14	76.75	75.92	75.70	75.67	75.28	76.92	77.40	76.10	75.98	77.42	76.83	75.74
15	76.72	75.90	75.65	75.62	75.24	77.76	77.45	76.05	75.93	77.15	76.80	75.68
16	76.68	75.88	75.62	75.57	75.18	77.29	77.25	76.02	75.90	77.02	76.75	75.65
17	76.64	75.86	75.60	75.50	75.13	77.12	77.08	75.98	75.87	76.95	76.68	75.63
18	76.61	75.83	75.57	75.45	75.09	78.10	76.95	76.23	76.53	76.90	76.62	75.82
19	76.60	75.81	75.90	75.40	75.06	78.14	76.85	76.28	76.67	76.86	76.55	75.83
20	76.57	75.79	76.04	75.38	75.05	77.67	76.75	76.22	76.63	76.82	76.47	75.79
21	76.55	75.90	76.05	75.36	75.02	77.41	76.68	76.12	76.53	76.78	76.40	75.75
22	76.53	75.85	76.01	75.35	74.99	77.28	76.61	76.08	76.46	76.72	76.35	75.70
23	76.49	75.80	75.95	75.42	74.96	77.17	76.63	76.03	76.73	76.68	76.33	75.66
24	76.46	75.85	75.88	75.44	74.93	77.07	76.55	75.96	76.76	76.65	76.28	75.63
25	76.45	75.87	75.82	75.40	74.89	76.98	76.50	75.91	76.88	76.61	76.23	75.60
26	76.42	75.80	75.76	75.68	74.87	76.90	77.10	75.87	78.07	76.57	76.18	75.58
27	76.40	75.78	75.70	75.79	75.38	76.83	76.95	75.83	77.76	76.54	76.15	75.57
28	76.35	75.76	75.65	75.80	75.58	76.77	76.87	76.08	77.62	76.47	76.10	75.55
29	76.33	.....	75.60	75.74	75.62	76.70	76.73	76.15	77.45	76.45	76.07	75.53
30	76.30	.....	75.57	75.70	75.64	76.65	76.64	76.11	77.32	76.58	76.03	75.51
31	75.27	.....	75.53	.....	75.62	.....	76.72	76.15	.....	76.42	.....	75.50



182. U. S. Geol. Survey. On Florida Highway 60, 4.3 miles east of Kissimmee River bridge. NE  $\frac{1}{4}$  sec. 16, T. 31 S., R. 32 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 23 feet, cased to 16, gravel packed 14-23. Land-surface datum is 62 feet above msl. Highest water level 61.73 above msl, Oct. 18, 1952; lowest 55.94 above msl, Aug. 13-15, 1950. Records available: 1949-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.87	59.49	59.98	59.14	59.84	60.33	59.50	60.43	60.47	60.70	60.05	59.68
2	59.84	59.48	59.76	59.10	59.72	61.12	59.45	60.24	60.18	61.25	59.88	59.64
3	59.94	59.46	60.15	59.07	59.63	61.58	59.37	60.70	59.91	61.03	59.73	59.58
4	59.83	59.43	60.20	59.08	59.56	61.62	59.29	61.10	59.75	60.78	59.65	59.53
5	59.78	59.40	59.85	59.05	59.48	61.38	59.25	60.63	59.60	60.52	59.60	59.50
6	59.71	59.35	60.56	59.00	59.40	61.22	61.24	60.28	59.51	60.35	59.53	59.79
7	59.64	59.33	60.94	59.48	59.32	61.38	61.43	60.03	59.77	60.23	59.47	59.68
8	59.62	59.47	60.63	60.78	59.25	61.40	61.53	59.87	59.53	60.17	59.42	59.55
9	59.70	59.43	60.52	60.61	59.16	61.00	61.49	59.74	59.45	60.91	59.37	59.50
10	59.71	59.38	60.41	60.35	59.10	60.72	61.41	59.65	59.43	60.65	59.50	59.43
11	60.72	59.35	60.19	60.07	59.02	60.42	61.33	59.79	59.58	60.35	60.30	59.36
12	60.58	59.32	60.00	59.84	58.96	60.21	61.48	59.63	59.85	60.10	60.23	59.34
13	60.41	59.30	59.89	59.74	59.18	60.05	61.52	59.51	61.22	59.95	60.10	59.77
14	60.28	59.27	59.82	59.70	59.19	59.90	61.57	59.43	61.39	60.60	61.10	60.12
15	60.20	59.25	59.67	59.58	59.10	59.83	61.50	59.36	61.19	60.70	61.30	59.98
16	60.15	59.24	59.55	59.50	58.98	60.78	61.42	59.28	61.08	60.03	61.43	59.83
17	60.00	59.23	59.50	59.44	58.91	60.77	61.51	59.20	60.80	59.78	61.35	59.73
18	59.96	59.22	59.48	59.35	58.84	61.39	61.30	59.14	60.68	59.66	61.23	61.21
19	59.87	59.20	59.48	59.29	58.80	61.50	61.09	60.52	60.60	59.60	61.04	61.12
20	59.84	59.18	60.49	59.25	59.11	61.38	60.80	60.11	60.40	59.55	61.07	60.89
21	59.90	59.87	60.28	59.21	59.15	61.22	60.50	59.85	60.20	59.49	60.80	60.72
22	59.86	60.61	59.97	59.18	59.03	61.03	60.25	59.72	61.10	59.43	60.63	60.57
23	59.78	60.40	59.76	59.20	58.90	60.88	60.00	60.37	61.37	59.39	60.68	60.45
24	59.73	60.28	59.61	59.15	58.80	60.72	60.71	59.89	61.28	59.35	60.42	60.35
25	59.70	60.70	59.50	59.28	58.70	60.82	60.56	59.66	61.20	59.35	60.25	60.29
26	59.65	60.40	59.43	60.42	58.66	60.35	60.75	59.55	61.33	59.33	60.08	60.21
27	59.63	60.19	59.38	60.87	59.59	60.10	61.40	59.72	61.37	59.29	59.95	60.14
28	59.58	60.09	59.32	60.55	59.63	59.90	61.30	59.49	61.30	59.25	59.86	60.05
29	59.55		59.28	60.25	59.73	59.73	61.10	59.84	61.09	59.22	59.80	59.97
30	59.52		59.23	60.00	60.46	59.62	60.76	59.85	60.84	60.60	59.73	59.90
31	59.50		59.18		60.57		60.55	60.60		60.30		59.84

183. U. S. Geol. Survey. SW  $\frac{1}{4}$  sec. 3, T. 31 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 27 feet, cased to 22, gravel packed 16-27. Land-surface datum is 73 feet above msl. Highest water level 73.43 above msl, Oct. 9, 1953; lowest 68.47 above msl, May 17, 20, 1950. Records available: 1948-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.71	71.07	70.93	70.40	70.19	71.88	71.40	72.05	72.78	71.87	71.40	71.36
2	71.66	71.05	70.84	70.37	70.20	73.29	71.32	71.75	72.13	72.25	71.29	71.33
3	71.80	71.01	71.17	70.35	70.16	73.22	71.25	71.60	71.80	71.65	71.19	71.28
4	71.55	70.97	71.10	70.60	70.10	73.19	71.17	71.43	71.70	71.43	71.12	71.24
5	71.51	70.93	70.98	70.53	70.02	73.03	71.12	71.82	71.52	71.33	71.08	71.22
6	71.43	70.89	71.63	70.44	69.97	72.73	71.86	71.88	71.43	71.31	71.02	71.56
7	71.35	70.87	71.80	70.38	69.92	72.54	71.73	71.25	71.28	71.30	70.95	71.27
8	71.32	71.14	71.56	70.68	69.88	72.30	71.70	71.17	71.17	71.70	70.90	71.20
9	71.50	70.97	71.52	70.63	69.84	72.10	71.66	71.10	71.40	71.95	70.85	71.17
10	71.42	70.88	71.46	70.55	69.80	71.90	71.57	71.05	71.10	71.96	70.82	71.10
11	72.92	70.85	71.34	70.45	69.77	71.74	71.97	71.97	72.97	71.63	71.84	71.08
12	72.43	70.82	71.23	70.34	69.75	71.60	71.97	71.52	72.70	71.42	71.89	71.07
13	72.23	70.77	71.15	70.31	69.73	71.52	71.98	71.28	73.21	71.29	71.66	71.63
14	72.12	70.74	71.18	70.41	69.71	71.44	71.97	71.12	72.93	71.97	72.64	71.68
15	72.04	70.72	71.00	70.39	69.68	73.00	71.93	71.04	72.52	71.86	72.81	71.42
16	71.96	70.70	70.89	70.32	69.65	72.98	71.89	70.95	72.32	71.50	72.48	71.31
17	71.80	70.67	70.81	70.27	69.63	72.82	71.83	70.88	72.05	71.35	72.70	71.25
18	71.70	70.63	70.75	70.22	69.60	73.18	71.80	71.77	71.97	71.25	72.25	e72.30
19	71.66	70.61	70.70	70.18	69.57	73.17	71.75	71.45	71.82	71.16	72.10	e72.18
20	71.58	70.60	71.47	70.15	69.55	73.10	71.70	71.22	71.73	71.12	72.57	72.06
21	71.52	71.28	71.31	70.12	69.65	72.89	71.50	71.08	71.57	71.06	71.96	71.95
22	71.63	71.24	71.17	70.10	69.64	72.65	71.35	72.68	71.97	71.00	71.85	71.86
23	71.43	71.13	71.05	70.14	69.60	72.50	71.27	72.15	71.65	70.95	71.95	71.78
24	71.35	71.07	70.93	70.13	69.56	72.70	71.97	71.80	71.48	70.92	71.66	71.73
25	71.31	71.32	70.82	70.11	69.53	72.48	71.53	71.60	.....	70.90	71.58	71.70

183--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	71.27	71.15	70.72	70.08	69.50	72.20	72.96	71.45	.....	70.85	71.52	71.63
27	71.23	71.06	70.64	70.05	71.15	71.95	72.45	71.32	.....	70.82	71.49	71.59
28	71.18	71.02	70.58	70.01	71.18	71.72	72.30	71.95	72.03	70.87	71.45	71.52
29	71.15		70.53	69.98	71.92	71.57	71.93	71.54	71.77	70.90	71.43	71.46
30	71.12		70.49	70.12	72.12	71.47	71.66	71.32	71.58	71.96	71.38	71.42
31	71.10		70.45		71.97		72.58	71.23		71.53		71.39

e Estimated.

Palm Beach County

88. U. S. Geol. Survey. South F St. and First Ave., Lake Worth. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 28, T. 44 S., R. 43 E. Drilled observation water-table well in sand of Biscayne aquifer, diameter 6 inches, depth 17 feet, cased to 16, gravel packed 12-17. Land-surface datum is 14.44 feet above msl. Highest water level 15.47 above msl, Oct. 5, 1948; lowest 4.35 above msl, Aug. 16, 1952. Records available: 1944-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.81	7.76	6.86	6.74	7.45	.....	10.40	11.45	10.72	10.74	9.30	8.33
2	8.77	7.73	6.84	6.70	7.38	.....	10.35	11.38	10.51	11.12	9.25	8.30
3	8.73	7.70	7.28	6.68	7.33	.....	10.27	11.31	10.42	10.93	9.19	8.25
4	8.70	7.65	7.03	6.65	7.27	.....	10.21	11.23	10.32	10.90	9.13	8.21
5	8.65	7.62	6.93	6.63	7.20	.....	10.15	11.16	10.21	10.81	9.08	8.18
6	8.61	7.58	7.05	6.60	7.15	.....	10.32	11.10	10.15	10.73	9.02	8.13
7	8.57	7.55	7.20	6.57	7.08	.....	10.16	11.03	10.08	10.66	8.97	8.10
8	8.52	7.52	7.09	7.98	7.03	.....	10.08	10.97	10.00	10.60	8.91	8.04
9	8.48	7.48	7.18	7.58	6.97	.....	10.02	10.90	9.94	10.54	8.85	8.00
10	8.46	7.43	7.20	7.57	6.92	.....	9.97	10.82	9.88	10.48	8.78	7.95
11	8.42	7.40	7.20	7.56	6.88	.....	9.94	10.75	9.79	10.42	8.73	7.92
12	8.37	7.36	7.20	7.55	6.84	.....	9.91	10.68	10.12	10.35	8.68	7.88
13	8.33	7.32	7.20	7.52	7.31	.....	9.86	10.60	10.32	10.30	8.64	7.84
14	8.30	7.28	7.20	7.47	7.08	.....	10.25	10.54	11.12	10.28	9.58	7.80
15	8.27	7.25	7.17	7.42	6.99	.....	11.40	10.47	11.18	10.23	9.05	7.77
16	8.23	7.20	7.13	7.37	6.95	.....	11.08	10.40	10.92	10.17	9.01	7.72
17	8.18	7.18	7.10	7.32	6.90	.....	10.98	10.32	10.83	10.11	8.95	7.69
18	8.15	7.15	7.06	7.25	7.59	.....	10.90	10.25	11.38	10.07	8.91	7.67
19	8.12	7.10	7.02	7.20	7.34	.....	10.80	10.17	10.97	10.01	8.86	7.62
20	8.09	7.06	7.40	7.20	7.32	.....	10.70	10.09	10.90	9.95	8.80	7.59
21	8.04	7.43	7.28	7.16	8.00	.....	10.95	10.00	10.83	9.90	8.74	7.55
22	8.38	7.56	7.21	7.65	7.69	.....	11.30	10.32	10.75	9.86	8.69	7.52
23	8.16	7.06	7.15	7.95	7.67	.....	11.00	9.92	11.52	9.80	8.63	7.50
24	8.04	7.02	7.10	7.75	7.64	.....	11.82	9.86	11.02	9.75	8.58	7.48
25	7.98	6.97	7.05	7.73	7.60	.....	12.00	9.78	10.92	9.70	8.55	7.43
26	7.95	6.94	7.00	7.71	7.54	.....	12.04	9.73	11.35	9.62	8.51	7.38
27	7.93	6.90	6.94	7.68	8.51	.....	11.85	9.68	11.00	9.57	8.47	7.35
28	7.90	6.92	6.89	7.64	....	.....	11.80	9.62	10.95	9.52	8.43	7.32
29	7.87		6.83	7.56	....	.....	11.68	10.45	10.88	9.48	8.39	7.28
30	7.83		6.80	7.50	....	10.50	11.58	9.88	10.79	9.40	8.36	7.22
31	7.80		6.77	....	....	....	11.52	10.03		9.35		7.19

99. U. S. Geol. Survey. Garden Ave. and Bradley St., West Palm Beach. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 4, T. 44 S., R. 43 E. Drilled observation water-table well in sand of Biscayne aquifer, diameter 6 inches, depth 18 feet, cased to 16, gravel packed 14-18. Land-surface datum is 14.43 feet above msl. Highest water level 14.06 above msl, Oct. 6, 1948; lowest 5.62 above msl, July 2, 1952. Records available: 1948-54.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.17	7.97	....	....	8.42	8.97	10.75	11.50	9.98	10.49	9.30	9.24
2	9.14	7.95	....	....	8.38	8.95	10.69	11.40	10.02	10.64	9.27	9.18
3	9.09	7.90	....	....	8.30	8.94	10.63	11.30	9.95	10.59	9.21	9.14
4	9.03	7.87	....	....	8.28	9.38	10.58	11.20	9.83	10.51	9.17	9.09
5	9.01	7.83	....	....	8.23	9.58	10.53	11.12	9.75	10.44	9.12	9.04
6	8.95	7.79	....	....	8.17	9.60	10.50	11.06	9.71	10.42	9.06	8.99
7	8.90	7.76	....	....	8.10	9.57	10.48	11.00	9.66	10.41	9.00	8.94
8	8.85	7.73	....	....	8.05	9.52	10.46	10.93	9.59	10.38	8.95	8.88
9	8.80	7.70	....	....	8.00	9.45	10.45	10.87	9.55	10.34	8.89	8.83
10	8.77	7.65	....	....	7.95	9.40	10.40	10.81	9.50	10.32	8.84	8.79

## 99--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	8.75	7.62	....	....	7.90	9.35	10.38	10.77	9.45	10.29	8.81	8.74
12	8.69	7.58	....	....	7.88	9.28	10.36	10.70	9.40	10.24	8.75	8.69
13	8.65	7.55	....	....	8.05	9.23	10.32	10.62	10.25	10.20	8.70	8.65
14	8.60	7.52	....	....	8.02	9.18	10.29	10.56	10.79	10.19	10.50	8.62
15	8.56	7.50	....	....	7.95	9.29	11.44	10.52	11.05	10.14	9.81	8.58
16	8.52	7.48	....	....	7.97	9.52	11.41	10.45	10.99	10.09	10.15	8.52
17	8.46	7.47	....	....	8.05	9.58	11.37	10.40	10.92	10.04	10.03	8.49
18	8.42	....	....	....	8.09	10.18	11.31	10.34	10.95	9.99	9.97	8.46
19	8.38	....	....	....	8.05	11.58	11.24	10.27	10.95	9.94	9.91	8.43
20	8.35	....	....	....	8.15	11.50	11.15	10.22	10.90	9.88	9.84	8.40
21	8.30	....	....	....	8.21	11.39	11.10	10.16	10.81	9.82	9.77	8.35
22	8.28	....	....	....	8.22	11.32	11.05	10.13	10.75	9.81	9.70	8.32
23	8.32	....	....	....	8.20	11.26	11.00	10.09	10.82	9.76	9.64	8.29
24	8.25	....	....	....	8.15	11.20	10.95	10.04	10.81	9.71	9.58	8.25
25	8.20	....	....	....	8.10	11.12	11.00	10.00	10.77	9.65	9.52	8.21
26	8.16	....	....	....	8.06	11.06	11.13	9.96	10.78	9.58	9.47	8.16
27	8.14	....	....	....	8.71	11.00	11.24	9.93	10.76	9.54	9.41	8.13
28	8.12	....	....	....	8.92	10.94	11.47	9.90	10.73	9.48	9.38	8.09
29	8.09	....	....	8.55	8.94	10.87	11.50	9.86	10.63	9.46	9.33	8.05
30	8.04	....	....	8.49	8.97	10.80	11.42	9.77	10.55	9.40	9.29	7.99
31	8.00	....	....	....	8.97	....	11.55	9.75	....	9.35	....	7.95

Pasco County

13. C. C. Cone. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 31, T. 25 S., R. 19 E. Drilled unused water-table well in Floridan aquifer, diameter 6 inches, depth 49 feet, cased to 43. Land-surface datum is 80.5 feet above msl. Highest water level 3.60 below lsd, Sept. 18, 1953; lowest 10.5 below lsd, June 1945. Records available: 1934, 1936-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.38	6.26	6.69	7.01	7.53	6.80	7.34	6.10	6.90	6.24	7.52	7.40
2	5.41	6.27	6.78	7.09	7.62	6.88	7.38	6.20	6.95	6.26	7.55	7.40
3	5.32	6.29	6.78	7.11	7.50	6.90	7.29	6.30	7.01	6.29	7.60	7.44
4	5.41	6.32	6.80	7.16	7.19	6.50	7.20	6.40	7.08	6.40	7.61	7.50
5	5.42	6.38	6.82	7.19	6.86	6.05	7.08	6.45	7.04	6.43	7.61	7.53
6	5.51	6.42	6.79	7.21	6.90	6.07	7.00	6.53	6.98	6.53	7.65	7.41
7	5.61	6.45	6.69	7.20	6.95	6.25	7.08	6.45	7.05	6.58	7.70	7.43
8	5.68	6.35	6.75	7.02	7.08	6.33	6.65	6.24	7.07	6.52	7.73	7.46
9	5.69	6.38	6.72	7.12	7.15	6.45	6.40	6.32	7.22	6.57	7.75	7.47
10	5.70	6.42	6.78	7.20	7.22	6.57	6.30	6.40	7.28	6.63	7.78	7.51
11	5.48	6.45	6.82	7.25	7.32	6.68	6.38	6.47	7.30	6.70	7.75	7.55
12	5.51	6.50	6.89	7.31	7.40	6.82	6.30	6.40	7.24	6.75	7.63	7.56
13	5.62	6.58	6.90	7.32	6.82	6.70	6.30	6.58	7.10	6.80	7.64	7.47
14	5.69	6.59	6.89	7.38	6.70	6.62	6.40	6.68	6.70	6.84	7.47	7.30
15	5.70	6.60	6.97	7.41	6.73	6.60	6.28	6.70	6.70	6.90	7.32	7.30
16	5.71	6.61	7.02	7.45	6.82	6.70	6.24	6.62	6.85	7.01	7.28	7.39
17	5.80	6.62	7.04	7.44	6.90	6.70	6.30	6.75	6.80	7.08	7.23	7.40
18	5.85	6.66	7.04	7.52	6.95	6.70	6.40	6.78	6.78	7.10	7.27	7.26
19	5.89	6.70	6.96	7.56	7.02	6.72	6.50	6.80	6.60	7.13	7.30	7.20
20	5.89	6.71	6.95	7.58	7.05	6.78	6.60	6.85	6.68	7.19	7.20	7.25
21	5.90	6.55	6.44	7.62	7.12	6.88	6.70	6.78	6.76	7.23	7.25	7.29
22	5.92	6.58	6.53	7.65	7.22	6.94	6.81	6.50	6.74	7.25	7.30	7.30
23	6.00	6.62	6.60	7.58	7.29	6.96	6.60	6.60	6.70	7.33	7.10	7.32
24	6.03	6.65	6.66	7.30	7.40	6.98	6.20	6.61	6.60	7.38	7.10	7.35
25	6.03	6.48	6.72	7.20	7.45	7.04	5.91	6.70	6.50	7.40	7.15	7.38
26	6.08	6.52	6.80	7.21	7.51	7.09	5.90	6.79	6.45	7.40	7.20	7.40
27	6.09	6.58	6.82	7.26	7.50	7.17	5.74	6.71	6.20	7.44	7.23	7.40
28	6.11	6.59	6.88	7.32	7.55	7.21	5.70	6.70	6.01	7.45	7.27	7.40
29	6.19	....	6.78	7.42	7.50	7.30	5.78	6.71	6.05	7.45	7.33	7.42
30	6.20	....	6.88	7.50	7.30	7.39	5.90	6.75	6.14	7.40	7.40	7.45
31	6.22	....	6.94	....	6.90	....	6.04	6.84	....	7.46	....	7.49

16. A. Messick. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 34, T. 25 S., R. 21 E. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, depth 1,008 feet, cased to 20. Land-surface datum is 135.5 feet above msl. Highest water level 54.6 below lsd, Sept. 1945; lowest 72.0 below lsd, June 1945. Records available: 1936-54.

## 16--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.89	61.07	62.49	63.82	65.02	66.26	66.15	64.45	63.13	64.28	65.61	66.88
2	59.87	61.08	62.55	63.87	65.04	66.30	66.16	64.18	63.17	64.31	65.63	66.88
3	59.88	61.09	62.57	63.90	65.07	66.35	66.16	64.06	63.21	64.37	65.70	66.93
4	59.88	61.15	62.67	63.96	65.10	66.35	66.15	63.95	63.27	64.40	65.70	67.00
5	59.85	61.25	62.67	64.00	65.15	66.39	66.13	63.84	63.31	64.43	65.75	67.00
6	59.92	61.33	62.70	64.02	65.20	66.39	66.13	63.73	63.32	64.47	65.81	67.04
7	60.00	61.40	62.75	64.05	65.25	66.35	66.10	63.67	63.35	64.52	65.88	67.09
8	60.03	61.42	62.79	64.07	65.30	66.29	66.07	63.61	63.37	64.55	65.93	67.15
9	60.04	61.46	62.78	64.10	65.37	66.26	66.01	63.52	63.40	64.57	65.97	67.16
10	60.03	61.50	62.83	64.15	65.40	66.22	65.97	63.40	63.45	64.58	66.02	67.24
11	60.07	61.56	62.89	64.18	65.43	66.20	65.93	63.30	63.52	64.61	66.08	67.27
12	60.24	61.67	62.96	64.19	65.46	66.19	65.89	63.22	63.58	64.65	66.14	67.29
13	60.28	61.76	63.08	64.22	65.49	66.18	65.85	63.16	63.63	64.70	66.16	67.29
14	60.28	61.77	63.12	64.25	65.57	66.16	65.84	63.11	63.66	64.68	66.18	67.36
15	60.24	61.82	63.18	64.30	65.62	66.14	65.79	63.05	63.69	64.75	66.22	67.39
16	60.23	61.85	63.25	64.32	65.65	66.13	65.77	63.00	63.73	64.87	66.26	67.46
17	60.36	61.87	63.26	64.38	65.68	66.14	65.74	62.98	63.77	64.93	66.30	67.46
18	60.45	61.93	63.25	64.45	65.72	66.14	65.72	62.97	63.80	64.95	66.34	67.52
19	60.47	61.99	63.25	64.49	65.75	66.10	65.69	62.95	63.84	64.96	66.36	67.57
20	60.51	62.05	63.30	64.50	65.68	66.12	65.67	62.95	63.87	65.00	66.40	67.59
21	60.54	62.07	63.37	64.53	65.75	66.14	65.65	62.95	63.91	65.05	66.48	67.63
22	60.56	62.16	63.44	64.57	65.89	66.15	65.65	62.97	63.96	65.13	66.50	67.69
23	60.67	62.18	63.46	64.64	65.94	66.15	65.64	62.98	64.02	65.20	66.54	67.75
24	60.74	62.14	63.50	64.68	65.98	66.13	65.63	62.96	64.05	65.22	66.58	67.79
25	60.78	62.26	63.54	64.72	66.01	66.12	65.63	62.96	64.08	65.25	66.63	67.87
26	60.81	62.27	63.58	64.73	66.05	66.11	65.62	62.97	64.10	65.30	66.68	67.89
27	60.84	62.33	63.60	64.80	66.07	66.10	65.52	63.01	64.12	65.34	66.70	67.91
28	60.87	62.32	63.64	64.83	66.11	66.09	65.30	63.04	64.16	65.36	66.73	67.92
29	60.94		63.68	64.90	66.17	66.10	65.03	63.00	64.22	65.40	66.82	67.97
30	60.99		63.72	64.97	66.22	66.13	64.80	63.02	64.25	65.49	66.87	68.02
31	61.04		63.76		66.25		64.57	63.08		65.56		68.07

Pinellas County

13. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T. 27 S., R. 15 E. Drilled observation artesian well in Floridan aquifer, diameter 6 inches, depth 141 feet, cased to 33. Land-surface datum is 11.88 feet above msl. Highest water level 6.65 below lsd, Aug. 17, 1949; lowest 10.70 below lsd, May 3, 1950. Records available: 1943-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.17	9.38	9.51	9.70	9.66	9.66	9.82	8.65	8.53	10.05	9.17	9.38
2	10.00	9.35	9.59	9.71	9.64	9.63	9.79	8.70	8.55	10.05	9.15	9.35
3	9.80	9.36	9.51	9.74	9.59	9.65	9.80	8.74	8.50	9.72	9.22	9.34
4	9.76	9.35	9.71	9.71	9.58	9.52	9.79	8.80	8.47	9.50	9.14	9.33
5	9.64	9.36	9.96	9.73	9.66	9.70	9.77	8.82	8.44	9.25	9.18	9.26
6	9.51	9.37	10.05	9.70	9.72	9.73	9.76	8.84	8.43	9.10	9.22	9.29
7	9.68	9.38	10.22	9.71	9.70	9.75	9.80	8.88	8.41	9.03	9.25	9.56
8	9.58	9.39	10.30	9.64	9.74	9.72	9.78	8.89	8.39	9.00	9.27	9.35
9	9.36	9.42	10.30	9.68	9.72	9.70	9.65	8.90	8.38	8.95	9.26	9.30
10	9.27	9.41	10.20	9.70	9.75	9.75	9.66	8.91	8.36	8.92	9.30	9.47
11	9.18	9.38	10.02	9.70	9.73	9.78	9.55	8.92	8.37	8.85	9.30	9.48
12	9.27	9.48	9.87	9.72	9.64	9.74	9.18	8.91	8.34	8.88	9.26	9.45
13	9.40	9.52	9.81	9.69	9.42	9.75	8.92	8.93	8.32	8.85	9.20	9.36
14	9.34	9.48	9.79	9.66	9.45	9.73	8.79	8.95	8.29	8.89	9.22	9.40
15	9.30	9.43	9.89	9.69	9.64	9.70	8.67	8.98	8.34	8.88	9.15	9.45
16	9.25	9.45	10.00	9.62	9.67	9.72	8.60	8.93	8.33	8.93	9.10	9.48
17	9.30	9.50	9.92	9.81	9.70	9.75	8.55	8.95	8.34	9.00	9.08	9.42
18	9.30	9.54	9.89	9.80	9.68	9.80	8.54	8.98	8.33	9.02	9.07	9.44
19	9.30	9.54	9.79	9.79	9.65	9.81	8.53	9.01	8.60	9.03	9.05	9.48
20	9.29	9.51	9.80	9.79	9.63	9.80	8.55	9.05	8.82	9.01	9.04	9.54
21	9.29	9.50	9.76	9.74	9.77	9.70	8.56	9.04	9.00	9.00	9.11	9.65
22	9.27	9.60	9.80	9.70	9.78	9.72	8.60	8.98	9.08	9.03	9.10	9.75
23	9.31	9.55	9.72	9.64	9.72	9.75	8.64	8.92	9.20	9.07	9.12	9.85
24	9.30	9.40	9.70	9.69	9.70	9.78	8.65	8.90	9.35	9.08	9.09	10.00
25	9.30	9.65	9.68	9.71	9.68	9.80	8.63	8.88	9.40	9.07	9.17	10.15

## 13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	9.24	9.48	9.69	9.72	9.70	9.78	8.61	8.84	9.41	9.06	9.22	10.25
27	9.24	9.40	9.68	9.66	9.67	9.79	8.62	8.81	9.50	9.08	9.20	10.30
28	9.30	9.22	9.65	9.70	9.66	9.75	8.64	8.85	9.55	9.10	9.25	10.20
29	9.29		9.66	9.69	9.69	9.78	8.63	8.82	9.60	9.07	9.24	10.05
30	9.30		9.64	9.67	9.63	9.77	8.65	8.70	9.75	9.10	9.40	10.00
31	9.33		9.68		9.70		8.64	8.60		9.15		9.95

77. Dr. Paul E. Allen. Formerly R. Duguid. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 28 S., R. 15 E.

Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 100 feet.

Land-surface datum is 69.50 feet above msl. Highest water level 62.79 below lsd, Sept. 6, 1950; lowest 67.95 below lsd, May 20, 1949. Records available: 1947-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.05	65.20	65.07	65.80	65.60	65.23	65.40	65.04	64.69	65.03	65.35	65.60
2	64.91	65.11	65.29	65.89	65.40	65.20	65.38	65.05	64.72	65.09	65.30	65.52
3	64.83	64.95	65.21	65.79	65.27	65.15	65.34	65.06	64.84	64.96	65.45	65.53
4	64.92	64.87	65.49	65.60	65.14	65.05	65.30	65.09	64.88	64.96	65.35	65.54
5	64.87	64.98	65.64	65.94	65.20	65.20	65.28	65.10	64.84	.....	65.21	65.33
6	64.82	65.11	65.68	66.00	65.30	65.32	65.30	65.05	64.85	.....	65.34	64.93
7	65.00	65.08	65.72	65.85	65.32	65.43	65.36	65.01	64.79	.....	65.44	65.63
8	65.01	65.04	65.69	65.80	65.41	65.44	65.36	65.01	64.60	.....	65.56	65.63
9	64.94	65.19	65.64	65.94	65.50	65.42	65.22	65.00	64.55	.....	65.61	65.40
10	64.77	65.18	65.54	65.91	65.55	65.43	65.21	64.99	64.54	.....	65.59	65.40
11	64.65	65.11	65.45	65.72	65.55	65.44	65.22	64.99	64.48	.....	65.53	65.60
12	65.02	65.18	65.40	65.80	65.44	65.40	65.20	65.00	64.51	.....	65.40	65.50
13	65.22	65.40	65.35	65.80	65.10	65.37	65.14	65.01	64.53	.....	65.27	65.23
14	65.09	65.30	65.38	65.70	64.96	65.40	65.10	65.00	64.44	.....	65.10	65.35
15	64.90	65.20	65.55	65.70	65.11	65.33	65.09	65.04	64.35	.....	64.93	65.43
16	64.80	65.11	65.88	65.50	65.24	65.30	65.03	65.03	64.35	.....	64.90	65.60
17	64.85	65.16	65.89	65.90	65.30	65.30	64.99	65.02	64.42	.....	64.90	.....
18	65.00	65.28	66.00	65.88	65.31	65.35	64.95	65.06	64.53	.....	64.96	65.40
19	64.96	65.32	65.60	66.50	65.32	65.43	64.94	65.10	64.62	.....	64.97	65.55
20	64.91	65.31	65.35	66.50	65.23	65.40	64.97	65.07	64.71	.....	64.94	65.72
21	64.91	65.20	65.38	66.30	65.40	65.40	64.99	65.03	64.82	.....	65.10	65.80
22	64.89	65.38	65.60	66.30	65.52	65.37	65.00	65.01	64.82	.....	65.10	65.80
23	65.02	65.40	65.50	66.10	65.52	65.39	65.00	64.96	64.87	65.20	65.09	65.78
24	65.09	65.10	65.45	65.69	65.53	65.39	64.97	65.00	64.91	65.18	65.12	65.77
25	65.07	65.27	65.40	65.60	65.50	65.40	64.97	64.90	64.89	65.15	65.20	65.85
26	64.98	65.20	65.40	65.80	65.39	65.38	64.92	64.82	64.80	65.38	65.36	65.90
27	64.90	65.12	65.39	65.90	65.30	65.30	64.93	64.82	64.78	65.43	65.38	65.90
28	64.96	64.88	65.35	65.70	65.26	65.23	64.99	64.86	64.79	65.56	65.22	65.85
29	65.04		65.33	65.50	65.29	65.27	65.00	64.80	64.81	65.51	65.27	65.73
30	65.00		65.32	65.75	65.26	65.37	65.05	64.75	64.90	65.30	65.60	65.80
31	65.01		65.65		65.24		65.05	64.70		65.30		65.86

166. Juice Industries, Inc. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 14, T. 28 S., R. 15 E. Dunedin. Drilled industrial artesian well in Floridan aquifer, diameter 12 inches, reported depth 200 feet. Land-surface datum is 13.57 feet above msl. Highest water level 8.12 below lsd, Sept. 5, 1950; lowest 18.34 below lsd, May 28-29, 1953. Records available: 1948-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.16	11.51	.....	12.73	13.65	.....	12.60	10.64	.....	.....	10.50	9.84
2	10.04	11.28	.....	12.80	13.58	.....	12.30	10.67	.....	.....	10.45	9.80
3	9.84	12.00	.....	12.85	13.33	.....	12.00	11.03	.....	.....	10.68	9.72
4	9.78	11.55	.....	13.05	13.40	.....	11.76	11.00	.....	.....	.....	10.03
5	9.74	11.68	.....	12.90	13.15	.....	11.60	11.40	.....	.....	.....	10.12
6	9.95	11.52	.....	13.10	13.70	.....	11.56	11.63	.....	9.10	.....	10.05
7	10.03	11.58	.....	13.28	14.05	.....	11.46	11.73	.....	9.21	.....	10.26
8	10.07	11.34	.....	12.79	14.25	.....	11.40	10.98	.....	9.29	.....	10.28
9	10.10	11.19	.....	12.90	14.40	.....	11.07	10.66	.....	9.30	.....	10.27
10	10.20	11.50	.....	13.40	.....	13.28	10.91	10.61	10.34	9.40	.....	10.30
11	10.33	11.70	.....	13.42	.....	13.94	10.65	10.65	10.60	9.50	.....	10.52
12	10.33	11.68	.....	13.40	.....	13.80	10.61	10.87	10.20	9.60	.....	10.56
13	10.62	11.91	.....	13.75	.....	13.60	10.53	10.74	.....	9.78	.....	10.48
14	10.56	11.81	.....	13.80	.....	13.82	10.48	10.50	.....	9.77	.....	10.30
15	10.55	11.81	.....	14.40	.....	13.50	10.34	10.44	.....	9.69	.....	10.28

## 166--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	10.49	12.00	.....	14.08	.....	12.80	10.20	10.43	.....	9.80	.....	10.46
17	10.32	12.08	.....	13.45	.....	12.56	10.18	10.59	.....	9.85	.....	10.48
18	10.53	12.30	11.80	13.44	.....	12.37	10.23	10.58	.....	9.95	9.77	10.40
19	10.54	12.40	11.65	13.13	.....	12.25	10.23	10.67	.....	10.13	9.70	10.44
20	10.70	12.38	11.32	13.55	.....	12.02	10.38	10.95	.....	10.30	9.68	10.60
21	10.77	11.88	11.24	13.85	.....	11.96	10.72	10.80	.....	10.43	9.64	10.62
22	10.76	11.70	11.32	13.57	.....	12.30	11.10	10.50	.....	10.60	9.52	10.68
23	10.81	11.62	11.40	13.30	.....	12.15	11.21	10.30	.....	10.79	9.50	10.78
24	10.82	11.57	11.70	13.15	.....	12.09	10.97	10.30	.....	10.90	9.40	10.80
25	11.00	11.70	11.73	13.04	.....	12.20	10.58	10.16	9.42	10.92	9.44	10.54
26	11.00	11.60	11.95	13.00	.....	12.32	10.43	10.17	.....	10.99	9.44	10.70
27	11.41	11.81	12.17	13.30	.....	12.55	10.49	10.19	.....	11.12	9.46	10.80
28	11.63	11.42	12.20	13.56	.....	12.66	10.47	10.26	.....	11.20	9.46	10.86
29	11.48	.....	12.02	13.68	.....	13.20	10.47	10.16	.....	10.78	9.40	10.84
30	11.55	.....	12.33	13.92	.....	13.65	10.46	.....	.....	10.60	9.84	10.80
31	11.41	.....	12.70	.....	.....	.....	10.53	.....	.....	10.50	.....	10.75

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.20	13.91	.....	15.48	16.08	.....	14.95	13.09	11.24	10.69	12.70	11.46
2	11.84	13.82	.....	15.42	15.30	.....	13.88	14.13	11.80	10.40	13.19	11.35
3	10.96	13.60	.....	15.40	15.88	.....	13.60	13.34	12.18	10.24	13.10	11.33
4	11.40	13.88	.....	15.18	15.40	.....	13.25	14.60	12.10	10.88	.....	12.26
5	10.87	13.88	.....	15.90	16.07	.....	14.02	14.90	11.87	11.27	.....	11.92
6	11.05	13.78	.....	15.43	16.60	.....	13.66	14.98	12.32	11.31	.....	11.40
7	11.24	13.41	.....	14.10	16.78	.....	13.90	14.80	12.28	12.13	.....	11.93
8	11.83	12.58	.....	14.10	16.92	.....	12.90	12.65	12.50	11.34	.....	11.89
9	11.87	12.79	.....	14.90	16.75	.....	12.79	13.12	13.50	11.84	.....	13.70
10	11.62	13.42	.....	15.33	.....	16.86	12.45	13.18	13.66	12.55	.....	13.23
11	11.31	13.78	.....	15.40	.....	17.08	12.30	14.05	14.14	11.88	.....	14.09
12	11.30	13.92	.....	16.00	.....	17.10	12.40	13.28	12.18	12.02	.....	14.01
13	11.62	14.31	.....	16.20	.....	17.05	12.18	13.10	12.64	11.90	.....	14.09
14	11.89	13.85	.....	16.30	.....	17.13	12.30	12.03	12.03	11.99	.....	12.10
15	11.95	14.65	.....	16.74	.....	15.61	12.18	12.26	11.01	11.90	.....	12.38
16	11.87	14.86	.....	16.40	.....	15.42	12.40	13.43	11.36	12.94	.....	11.67
17	11.48	15.18	.....	15.40	.....	14.34	12.10	13.17	12.33	12.29	.....	11.63
18	12.40	15.38	14.58	15.52	.....	14.07	12.92	13.41	12.36	13.48	11.22	11.52
19	12.51	15.31	13.30	16.27	.....	13.87	13.59	14.18	12.00	13.56	11.25	11.46
20	12.77	15.27	12.40	16.46	.....	13.61	14.07	14.27	12.23	13.60	11.04	11.70
21	12.85	13.25	12.40	15.80	.....	15.50	14.44	12.40	11.27	13.64	10.75	11.82
22	12.35	13.00	13.28	15.46	.....	14.97	14.70	12.01	10.97	13.95	11.00	12.16
23	12.64	13.58	13.80	14.90	.....	14.90	14.45	12.50	10.87	14.00	10.72	12.77
24	12.40	13.54	14.20	14.00	.....	15.51	13.72	12.25	10.80	13.70	10.33	12.58
25	12.97	12.74	14.30	14.50	.....	15.63	12.20	11.67	10.41	14.25	10.34	12.20
26	12.98	13.62	14.60	14.90	.....	16.05	12.98	12.39	10.18	14.30	10.50	12.54
27	13.78	13.87	14.10	15.70	.....	16.11	12.07	12.85	10.34	14.29	11.78	14.44
28	13.77	.....	13.80	15.87	.....	16.64	12.15	12.95	10.37	14.41	11.54	13.50
29	13.86	.....	14.60	16.25	.....	17.00	12.50	11.49	10.15	13.48	12.72	12.80
30	13.73	.....	14.90	15.85	.....	17.15	12.53	12.00	10.40	12.07	11.50	12.40
31	12.85	.....	15.11	.....	.....	.....	13.00	11.89	.....	11.80	.....	13.00

246. City of Clearwater. Garden and Marshall Sts. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 29 S., R. 15 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 100 feet. Land-surface datum is 32.27 feet above msl. Highest water level 23.64 below lsd, Sept. 6, 1950; lowest 28.28 below lsd, May 29, 1953. Records available: 1946-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.05	26.36	26.19	26.71	26.70	.....	26.70	.....	.....	.....	26.21	26.65
2	25.85	26.16	26.33	26.80	26.42	.....	26.34	.....	.....	.....	26.20	26.51
3	25.70	25.97	26.27	26.89	26.42	.....	26.23	.....	.....	.....	26.43	26.46
4	25.80	26.00	26.58	26.72	26.11	.....	26.14	.....	.....	.....	26.31	26.50
5	25.70	26.09	26.65	26.75	26.12	.....	.....	.....	.....	.....	26.20	26.25
6	25.72	26.17	26.57	26.75	26.27	.....	.....	.....	.....	25.84	26.25	25.88
7	26.00	26.17	26.56	26.64	26.45	.....	.....	.....	.....	25.88	26.41	26.58
8	26.00	26.12	26.44	26.53	.....	.....	.....	.....	.....	25.93	26.57	26.54
9	25.93	26.27	26.25	26.70	.....	.....	.....	.....	.....	25.96	26.65	26.31
10	25.70	26.27	26.17	26.80	.....	26.87	.....	.....	.....	25.92	26.68	26.41

## 246--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	25.60	26.13	26.08	26.78	.....	26.89	.....	.....	.....	25.86	26.59	26.52
12	26.16	26.22	26.10	26.80	.....	26.85	.....	.....	.....	25.86	26.34	26.40
13	26.35	26.55	26.14	26.80	.....	26.83	.....	.....	.....	25.95	26.17	26.10
14	26.14	26.44	26.14	26.68	.....	26.82	.....	.....	.....	25.96	25.91	26.17
15	25.89	26.34	26.51	26.65	.....	26.62	.....	.....	.....	25.95	25.70	26.38
16	25.71	26.35	26.93	26.51	.....	26.23	.....	.....	.....	26.22	25.65	26.49
17	25.80	26.36	26.95	26.64	.....	26.18	.....	.....	.....	26.40	25.65	26.32
18	25.98	26.46	26.75	.....	.....	26.22	.....	.....	.....	26.50	25.75	26.23
19	25.96	26.53	26.47	.....	.....	26.29	.....	.....	.....	26.50	25.80	26.39
20	25.97	26.50	26.14	.....	.....	26.29	.....	.....	.....	26.44	25.80	26.61
21	25.96	26.40	26.24	.....	.....	26.36	.....	.....	.....	26.40	25.91	26.65
22	25.90	26.47	26.52	.....	.....	26.60	.....	.....	.....	26.42	25.99	26.58
23	26.05	26.45	26.50	.....	.....	26.50	.....	.....	.....	26.48	25.90	26.55
24	26.10	26.15	26.45	.....	.....	26.39	.....	.....	.....	26.44	25.98	26.51
25	26.13	26.30	26.45	.....	.....	26.52	.....	.....	.....	26.40	26.11	26.57
26	26.07	26.18	26.50	.....	.....	26.52	.....	.....	.....	26.41	26.27	26.63
27	26.01	26.11	26.51	.....	.....	26.45	.....	.....	.....	26.42	26.32	26.72
28	26.21	25.82	26.46	.....	.....	26.53	.....	.....	.....	26.39	26.14	26.65
29	26.18	.....	26.50	26.68	.....	26.69	.....	.....	.....	26.21	26.25	26.60
30	26.16	.....	26.56	26.75	.....	26.83	.....	.....	.....	26.10	26.61	26.65
31	26.13	.....	26.65	.....	.....	.....	.....	.....	.....	26.14	.....	26.70

561. City of St. Petersburg. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 26, T. 30 S., R. 16 E. Drilled unused artesian well in Floridan aquifer, diameter 14 inches, reported depth 300 feet. Land-surface datum is 9.72 feet above msl. Highest water level 0.07 below lsd, Sept. 5, 1950; lowest 3.91 below lsd, May 30, 1953. Records available: 1947-54.

## Daily mean water level from recorder graph\*

Day	Jan.	Feb.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.60	2.74	.....	2.55	2.32	2.02	2.20	.....	2.82
2	2.40	2.67	.....	2.52	2.30	2.10	2.30	2.50	2.78
3	2.20	2.49	.....	2.48	2.36	.....	2.09	2.65	2.66
4	.....	.....	.....	2.37	2.42	.....	2.09	2.60	2.71
5	e2.25	.....	.....	2.32	2.48	2.34	2.30	2.39	2.57
6	e2.30	.....	.....	2.33	2.45	2.35	2.22	2.56	2.11
7	e2.40	.....	.....	2.38	2.32	2.32	2.23	2.72	2.80
8	2.55	.....	.....	2.43	2.27	2.14	2.32	2.80	2.86
9	2.46	.....	.....	2.35	2.21	2.05	2.40	2.82	2.58
10	2.25	.....	.....	2.29	2.20	2.06	2.35	2.79	2.55
11	2.08	.....	.....	2.28	2.21	2.03	2.26	2.76	2.77
12	2.56	.....	2.62	2.31	2.23	1.99	2.14	2.61	2.64
13	2.87	.....	2.60	2.31	2.31	2.00	2.17	2.44	2.32
14	2.73	.....	2.56	2.29	2.32	1.97	2.17	2.22	.....
15	2.42	.....	2.47	2.26	2.34	.....	.....	2.05	.....
16	2.20	.....	2.38	2.20	2.32	.....	.....	1.95	2.67
17	.....	.....	.....	2.17	2.29	.....	2.66	1.92	2.57
18	e2.40	.....	.....	2.15	2.31	.....	2.77	2.01	2.40
19	e2.35	.....	2.50	2.14	2.34	e1.85	2.77	2.06	2.57
20	e2.33	.....	2.46	2.17	2.34	1.85	2.69	2.03	2.77
21	2.32	.....	2.46	2.27	2.33	1.92	2.66	2.20	2.80
22	2.31	.....	2.47	2.26	2.35	1.93	2.68	2.25	2.72
23	2.42	.....	2.47	2.25	2.31	1.99	2.74	2.15	2.63
24	2.57	.....	2.43	2.20	2.34	2.10	2.70	2.27	2.58
25	.....	.....	2.45	2.15	2.32	2.12	2.65	2.28	2.67
26	e2.50	.....	2.43	2.10	2.23	2.02	2.60	2.45	2.74
27	2.40	.....	2.32	2.10	2.18	1.92	2.56	2.53	2.72
28	2.50	.....	2.28	2.17	2.22	1.92	2.52	2.32	2.65
29	2.62	.....	2.35	2.23	2.15	1.98	2.32	2.36	2.57
30	2.58	.....	2.46	2.29	2.08	2.02	2.27	2.76	2.65
31	2.55	.....	.....	2.36	2.04	.....	.....	.....	2.74

\* No record for March, April, and May.

e Estimated.

## Polk County

44. P. E. Williams. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 28, T. 26 S., R. 27 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, depth 180 feet. Land-surface datum is 113.14 feet above msl. Highest water level 0.28 below lsd, Oct. 9, 1953; lowest 3.50 below lsd, June 8, 1951. Records available: 1946-54.

44--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.07	1.55	1.79	2.40	2.73	3.01	2.53	1.86	2.36	2.10	2.65	2.70
2	1.08	1.57	1.80	2.48	2.74	3.05	2.55	1.90	2.38	2.06	2.65	2.68
3	1.08	1.57	1.80	2.50	2.72	2.96	2.59	1.88	2.41	2.03	2.70	2.72
4	1.11	1.61	1.84	2.53	2.75	2.25	2.60	1.88	2.46	2.07	2.68	2.76
5	1.10	1.65	1.83	2.50	2.80	2.03	2.62	1.79	2.47	2.13	2.69	2.74
6	1.17	1.67	1.80	2.46	2.84	2.02	2.64	1.82	2.47	2.16	2.71	2.75
7	1.21	1.67	1.71	2.17	2.88	2.02	2.56	1.83	2.48	2.17	2.75	2.82
8	1.23	1.62	1.73	2.12	2.91	2.04	2.17	1.74	2.50	2.18	2.78	2.81
9	1.23	1.65	1.74	2.16	2.94	2.10	1.92	1.76	2.53	2.13	2.80	2.78
10	1.19	1.67	1.77	2.23	2.95	2.14	1.90	1.80	2.56	2.14	2.81	2.85
11	1.15	1.62	1.81	2.24	2.98	2.16	1.86	1.83	2.61	2.18	2.82	2.86
12	1.21	1.65	1.85	2.27	3.00	2.18	1.83	1.89	2.64	2.22	2.77	2.83
13	1.25	1.67	1.87	2.33	2.92	2.19	1.88	1.95	2.60	2.26	2.75	2.80
14	1.27	1.64	1.87	2.36	2.88	2.22	1.94	1.98	2.57	2.25	2.64	2.77
15	1.26	1.65	1.86	2.41	2.89	2.25	1.92	2.02	2.55	2.32	2.50	....
16	1.27	1.67	2.00	2.44	2.91	2.27	1.88	2.04	2.56	2.41	2.45	....
17	1.33	1.67	1.98	2.47	2.93	2.31	1.92	2.09	2.48	2.43	2.46	....
18	1.37	1.70	1.97	2.48	2.97	2.27	1.96	2.13	2.43	2.44	2.45	....
19	1.38	1.73	1.95	2.48	3.02	2.20	2.01	2.15	2.41	2.45	2.49	....
20	1.40	1.72	1.90	2.52	3.03	2.18	2.05	2.20	2.45	2.49	2.50	....
21	1.42	1.70	1.88	2.48	3.07	2.25	2.10	2.23	2.49	2.51	2.55	....
22	1.41	1.75	1.92	2.49	3.10	2.30	2.15	2.24	2.50	2.56	2.57	....
23	1.49	1.75	1.99	2.48	3.13	2.32	2.16	2.28	2.41	2.59	2.54	....
24	1.49	1.67	....	2.52	3.14	2.35	2.15	2.29	2.36	2.58	2.51	....
25	1.48	1.67	....	2.55	3.16	2.36	2.15	2.31	2.15	2.59	2.54	....
26	1.50	1.67	....	2.54	3.19	2.32	1.97	2.35	2.04	2.62	2.60	....
27	1.52	1.70	....	2.55	3.14	2.34	1.82	2.38	1.95	2.63	2.60	....
28	1.54	1.67	....	2.59	3.03	2.38	1.79	2.40	1.99	2.63	2.61	....
29	1.57	....	....	2.65	3.01	2.44	1.78	2.30	2.04	2.64	2.67	....
30	1.58	....	....	2.68	3.01	2.50	1.83	2.31	2.08	2.62	2.72	....
31	1.59	....	2.35	....	3.00	....	1.86	2.35	....	2.63	....	....

45. Claude Hardin. Sand Gulley. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 36, T. 28 S., R. 24 E. Drilled unused artesian well in Floridan aquifer, diameter 18 to 12 inches, reported depth 768 feet, cased to 325.  $\omega$  Highest water level 58.75 below lsd, Oct. 18, 1948; lowest 72.67 below lsd, May 21, 1953. Records available: 1948-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	62.93	65.12	66.00	67.73	69.32	69.43	68.93	67.17	67.18	....	....	....
2	63.01	65.08	66.09	67.91	69.14	69.34	68.91	67.06	67.28	....	....	....
3	62.99	65.07	66.20	68.10	69.06	69.23	68.90	67.05	67.30	....	....	....
4	62.92	65.10	66.38	68.17	68.92	69.16	68.79	67.12	67.29	....	....	....
5	62.86	65.23	66.40	68.07	68.83	69.18	68.58	67.18	67.24	....	....	....
6	63.01	65.39	66.36	67.97	68.96	69.12	68.42	67.20	67.00	....	....	....
7	63.28	65.47	66.35	67.95	69.16	69.05	68.36	67.20	66.82	h67.08	....	....
8	63.47	65.32	66.31	67.97	69.39	69.06	68.35	67.01	66.66	....	....	....
9	63.66	65.17	66.26	68.06	69.56	69.07	68.19	66.85	66.74	....	....	....
10	....	65.20	66.33	68.25	69.62	69.16	68.10	66.83	66.72	....	....	....
11	....	65.35	66.42	68.35	69.66	69.25	67.99	66.89	67.08	....	....	....
12	....	65.54	66.51	68.38	69.75	69.36	67.88	67.10	67.20	....	....	....
13	....	65.77	66.51	68.52	69.60	69.23	67.94	67.30	67.02	....	....	....
14	....	65.85	66.45	68.54	69.54	69.10	68.00	67.49	66.87	....	....	....
15	....	65.81	66.53	68.59	69.57	69.15	67.96	67.42	66.84	....	....	....
16	....	65.85	66.65	68.61	69.58	69.12	67.87	67.18	66.89	....	....	....
17	63.82	65.97	66.75	68.71	69.59	69.13	67.75	67.20	67.00	....	....	....
18	63.76	66.10	66.82	66.76	69.71	69.00	67.63	67.35	67.14	h67.21	....	....
19	63.75	66.14	66.87	68.78	69.82	68.91	67.61	67.43	67.15	....	....	....
20	63.87	66.37	66.80	68.95	69.74	68.83	67.72	67.53	67.12	....	....	....
21	63.97	66.30	66.75	69.07	69.62	68.80	67.85	67.66	67.16	....	....	....
22	64.01	66.12	66.74	69.08	69.70	68.83	67.82	67.64	67.27	....	....	....
23	64.09	66.05	66.85	69.05	69.75	68.80	67.95	67.47	67.33	....	....	....
24	64.17	65.89	67.06	69.03	69.76	68.74	67.81	67.35	67.37	....	....	....
25	....	65.92	67.17	69.02	69.88	68.70	67.64	67.34	67.40	....	....	....



## 45--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	.....	65.97	67.30	68.97	69.97	68.65	67.55	67.52	67.31	.....	.....	.....
27	64.51	66.05	67.38	69.01	69.71	68.58	67.42	67.66	67.09	.....	.....	.....
28	64.64	66.00	67.38	69.09	69.65	68.55	67.32	67.77	66.92	.....	.....	.....
29	64.83		67.34	69.30	69.64	68.64	67.30	67.57	66.95	.....	.....	.....
30	65.01		67.41	69.43	69.59	68.78	67.33	67.24	.....	.....	.....	.....
31	65.12		67.53		69.49		67.32	67.17		.....	.....	.....

e Estimated.

h Tape measurement.

45-A. Claude Hardin. Sand Gully. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 36, T. 28 S., R. 24 E. Drilled observation water-table well in sand, diameter 8 inches, reported depth 26 feet, cased to 17. Highest water level 0.64 below lsd, Sept. 28, 1953; lowest 3.72 below lsd, May 27, 1949. Records available: 1948-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.38	2.04	2.19	2.58	2.62	2.52	2.13	1.57	2.17	2.25	2.76	2.78
2	1.40	2.05	2.24	2.60	2.62	2.42	2.16	1.60	2.20	2.27	2.77	2.77
3	1.42	2.05	2.27	2.61	2.63	2.30	2.18	1.61	2.14	2.30	2.79	2.75
4	1.44	2.06	2.30	2.53	2.64	1.95	2.02	1.66	2.15	2.33	2.80	2.76
5	1.45	2.09	2.33	2.41	2.66	1.85	1.94	1.71	2.18	2.36	2.80	2.78
6	1.49	2.12	2.30	2.39	2.70	1.86	1.92	1.76	2.21	2.38	2.80	2.75
7	1.57	2.15	2.24	2.38	2.75	1.90	1.78	1.66	2.24	2.40	2.81	2.79
8	1.62	2.16	2.24	2.40	2.78	1.92	1.75	1.40	2.25	2.42	2.83	2.81
9	1.64	2.16	2.26	2.44	2.81	1.95	1.67	1.38	2.27	2.42	2.84	2.82
10	....	2.17	2.25	2.49	2.84	2.00	1.62	1.39	2.30	2.42	2.85	2.83
11	1.57	2.18	2.27	2.52	2.85	2.03	1.60	1.43	2.33	2.43	2.85	2.86
12	1.54	2.21	2.30	2.54	2.85	2.00	1.62	1.50	2.36	2.44	2.85	2.86
13	1.61	2.26	2.34	2.57	2.77	1.76	1.67	1.57	2.34	2.46	2.85	2.83
14	1.64	2.28	2.34	2.55	2.65	1.75	1.74	1.64	2.30	2.48	2.70	2.76
15	....	2.28	2.39	2.48	2.60	1.73	1.75	1.69	2.28	2.47	2.56	2.76
16	....	2.28	2.46	2.42	2.63	1.61	1.69	1.67	2.29	2.56	2.55	2.78
17	1.70	2.29	2.49	2.42	2.66	1.63	1.67	1.71	2.32	2.60	2.54	2.79
18	1.75	2.29	2.49	2.48	2.70	1.68	1.72	1.78	2.34	2.62	2.56	2.77
19	1.78	2.30	2.46	2.53	2.72	1.68	1.80	1.83	2.37	2.63	2.58	2.77
20	1.80	2.30	2.34	2.56	2.60	1.69	1.85	1.87	2.39	2.64	2.59	2.77
21	1.80	2.27	2.34	2.57	2.47	1.74	1.92	1.92	2.41	2.65	2.60	2.78
22	1.80	2.25	2.39	2.62	2.50	1.77	1.96	1.97	2.43	2.67	2.63	2.78
23	1.85	2.28	2.43	2.63	2.55	1.78	1.97	2.00	2.42	2.71	2.62	2.79
24	1.90	2.22	2.46	2.64	2.60	1.80	1.80	2.02	2.42	2.73	2.61	2.80
25	1.92	2.11	2.48	2.65	2.62	1.82	1.61	2.04	2.41	2.72	2.62	2.81
26	1.93	2.11	2.50	2.66	2.65	1.88	1.59	2.13	2.38	2.73	2.66	2.83
27	1.96	2.14	2.52	2.67	2.55	1.93	1.45	2.14	2.30	2.73	2.68	2.83
28	1.99	2.15	2.52	2.68	2.44	1.97	1.43	2.15	2.17	2.74	2.68	2.84
29	2.00		2.53	2.70	2.45	2.03	1.43	2.15	2.18	2.73	2.71	2.84
30	2.01		2.56	2.72	2.48	2.07	1.46	2.13	2.22	2.69	2.76	2.85
31	2.03		2.57		2.51		1.52	2.14		2.72		2.86

47. U. S. Geol. Survey. About 2 miles northwest of Davenport. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 33, T. 26 S., R. 27 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 67 feet, cased to 60, gravel packed 57-67. Land-surface datum is 156.50 feet above msl. Highest water level 42.97 below lsd, Oct. 8, 1948; lowest 48.63 below lsd, June 14, 1949. Records available: 1948-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.34	45.81	46.30	46.81	47.25	47.86	47.33	46.91	46.88	47.19	47.42	47.72
2	45.35	45.82	46.30	46.82	47.27	47.89	47.32	46.90	46.90	47.18	47.44	47.73
3	45.36	45.83	46.32	46.83	47.27	47.89	47.31	46.87	46.91	47.16	47.45	47.75
4	45.37	45.85	46.34	46.85	47.30	47.92	47.31	46.86	46.92	47.18	47.47	47.75
5	45.37	45.87	46.35	46.88	47.30	47.93	47.31	46.85	46.96	47.17	47.48	47.75
6	45.39	45.89	46.36	46.90	47.32	47.93	47.31	46.83	46.96	47.16	47.50	47.76
7	45.41	45.92	46.38	46.91	47.34	47.90	47.31	46.82	46.96	47.15	47.52	47.77
8	45.42	45.93	46.40	46.95	47.37	47.86	47.32	46.80	46.98	47.15	47.54	47.78
9	45.44	45.96	46.41	46.95	47.38	47.82	47.32	46.80	47.00	47.16	47.57	47.80
10	45.45	45.99	46.43	46.96	47.40	47.80	47.30	46.79	47.02	47.16	47.57	47.80
11	45.47	46.00	46.45	46.97	47.44	47.78	47.29	46.78	47.03	47.16	47.58	47.81
12	45.49	46.01	46.46	46.97	47.44	47.75	47.28	46.76	47.04	47.16	47.61	47.82
13	45.50	46.04	46.47	46.99	47.47	47.72	47.26	46.75	47.06	47.16	47.62	47.83
14	45.52	46.05	46.50	47.01	47.48	47.69	47.25	46.73	47.07	47.17	47.63	47.84
15	45.53	46.07	46.52	47.02	47.52	47.66	47.22	46.72	47.07	47.18	47.65	47.85

## 47--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	45.55	46.08	46.53	47.03	47.53	47.64	47.20	46.70	47.08	47.21	47.66	47.86
17	45.57	46.10	46.55	47.04	47.56	47.61	47.17	e46.70	47.10	47.22	47.67	47.87
18	45.58	46.12	46.56	47.05	47.59	47.59	47.15	e46.69	47.13	47.24	47.69	47.88
19	45.60	46.14	46.56	47.05	47.61	47.57	47.13	e46.68	47.14	47.25	47.69	47.89
20	45.62	46.15	46.57	47.06	47.62	47.55	47.10	e46.71	47.15	47.26	47.69	47.90
21	45.64	46.16	46.59	47.08	47.63	47.52	47.08	e46.73	47.17	47.27	47.70	47.92
22	45.65	46.18	46.63	47.11	47.68	47.48	47.06	e46.75	47.17	47.28	47.70	47.93
23	45.66	46.19	46.64	47.12	47.68	47.46	47.05	e46.76	47.18	47.29	47.69	47.94
24	45.68	46.21	46.68	47.13	47.71	47.44	47.03	e46.77	47.18	47.30	47.69	47.95
25	45.70	46.23	46.69	47.14	47.74	47.42	47.01	e46.78	47.18	47.32	47.70	47.95
26	45.71	46.24	46.72	47.15	47.75	47.40	47.01	e46.79	47.19	47.33	47.70	47.95
27	45.73	46.25	46.73	47.17	47.75	47.38	46.99	46.80	47.20	47.34	47.70	47.95
28	45.74	46.27	46.75	47.18	47.78	47.37	46.98	46.81	47.20	47.37	47.70	47.95
29	45.75		46.76	47.19	47.80	47.35	46.97	46.82	47.20	47.38	47.71	47.96
30	45.77		46.77	47.23	47.84	47.34	46.95	46.85	47.19	47.38	47.71	47.97
31	45.78		46.79		47.85		46.93	46.86		47.40		47.98

e Estimated.

48. U. S. Geol. Survey. On Florida Highway 17, 2.7 miles south of Frostproof. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 9, T. 32 S., R. 28 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 62 feet, cased to 59, gravel packed 52-62. Land-surface datum is 144 feet above msl. Highest water level 38.08 below lsd, Oct. 7, 1948; lowest 46.68 below lsd, June 18, 1951. Records available: 1949-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.57	42.22	42.72	43.19	43.30	43.39	42.70	43.13	43.63	43.65	43.82	44.12
2	41.59	42.23	42.73	43.21	43.26	43.37	42.72	43.15	.....	43.65	43.82	44.13
3	41.61	42.24	42.75	43.22	43.25	43.36	42.73	43.17	.....	43.65	43.83	44.14
4	41.63	42.26	42.76	43.23	43.24	43.30	42.75	43.18	.....	43.66	43.84	44.16
5	41.65	42.29	42.77	43.24	43.24	43.22	42.77	43.20	.....	43.67	43.84	44.16
6	41.67	42.32	42.78	43.24	43.25	43.13	42.79	43.21	.....	43.68	43.85	44.18
7	41.70	42.33	42.80	43.24	43.26	43.00	42.82	43.22	.....	43.65	43.86	44.20
8	41.72	42.35	42.82	43.22	43.27	42.93	42.83	43.24	.....	43.63	43.88	44.21
9	41.73	42.37	42.83	43.18	43.28	42.87	42.85	43.25	.....	43.61	43.89	44.22
10	41.75	42.39	42.85	43.15	43.31	42.82	42.86	43.27	.....	43.60	43.90	44.23
11	41.78	42.41	42.86	43.11	43.32	42.78	42.88	43.29	.....	43.58	43.91	44.24
12	41.80	42.44	42.87	43.08	43.33	42.76	42.88	43.31	.....	43.58	43.92	44.25
13	41.82	42.46	42.88	43.07	43.34	42.74	42.89	43.33	.....	43.58	43.93	44.25
14	41.84	42.48	42.90	43.06	43.35	42.70	42.89	43.35	.....	43.57	43.94	44.26
15	41.85	42.49	42.93	43.07	43.36	42.67	42.90	43.36	.....	43.60	43.95	44.27
16	41.87	42.50	42.95	43.08	43.38	42.65	42.90	43.38	.....	43.62	43.96	44.29
17	41.90	42.52	42.96	43.10	43.39	42.63	42.91	43.39	.....	43.63	43.97	44.30
18	41.92	42.53	42.96	43.13	43.40	42.62	42.92	43.41	.....	43.64	43.98	44.30
19	41.94	42.55	42.97	43.15	43.41	42.60	42.93	43.43	.....	43.65	43.99	44.31
20	41.95	42.56	42.98	43.17	43.42	42.60	42.94	43.44	.....	43.67	44.00	44.32
21	41.99	42.58	43.00	43.19	43.43	42.59	42.95	43.45	.....	43.69	44.01	44.33
22	42.00	42.60	43.02	43.20	43.44	42.59	42.96	43.47	.....	43.71	44.02	44.34
23	42.02	42.61	43.03	43.22	43.45	42.59	42.97	43.49	.....	43.72	44.03	44.35
24	42.05	42.63	43.05	43.23	43.46	42.60	42.99	43.50	.....	43.73	44.04	44.36
25	42.07	42.65	43.08	43.24	43.47	42.61	43.00	43.51	.....	43.75	44.04	44.37
26	42.08	42.66	43.09	43.25	43.48	42.62	43.02	43.53	.....	43.76	44.05	44.38
27	42.10	42.67	43.10	43.27	43.48	42.63	43.04	43.55	.....	43.77	44.06	44.39
28	42.13	42.69	43.12	43.29	43.48	42.64	43.06	43.56	43.65	43.79	44.07	44.40
29	42.15		43.14	43.32	43.48	42.65	43.08	43.57	43.65	43.79	44.09	44.41
30	42.17		43.16	43.31	43.48	42.68	43.10	43.59	43.65	43.80	44.11	44.42
31	42.19		43.17		43.44		43.12	43.62		43.81		44.43

49. U. S. Geol. Survey. On Florida Highway 630, 0.2 mile southwest of intersection of Florida Highway 60. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 31 S., R. 20 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 17 feet, cased to 14, gravel packed 9-17. Land-surface datum is 105 feet above msl. Highest water level 0.31 above lsd, Nov. 25, 1953; lowest 5.54 below lsd, June 10-12, 1949. Records available: 1949-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.52	2.10	2.07	2.94	2.45	1.45	2.15	2.15	3.17	1.73	1.75	2.30
2	1.57	2.11	2.28	2.98	2.52	1.00	2.20	2.28	3.22	1.22	1.88	2.34
3	1.42	2.15	2.18	3.00	2.57	.30	2.26	2.43	3.28	1.59	2.00	2.39
4	1.57	2.18	2.29	3.03	2.62	.35	2.32	2.50	3.32	1.76	2.06	2.43
5	1.61	2.20	2.38	3.10	2.70	.87	1.75	2.55	3.37	1.86	2.10	2.45

## 49--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	1.68	2.25	1.76	3.13	2.75	1.07	1.82	2.60	3.40	1.90	2.17	2.31
7	1.73	2.27	1.70	1.55	2.82	1.16	1.45	2.45	3.43	1.92	2.23	2.41
8	1.75	2.07	1.87	1.52	2.90	1.26	.85	2.52	3.47	1.75	2.28	2.46
9	1.75	2.21	1.90	1.68	2.98	1.39	1.27	2.64	3.52	1.70	2.33	2.50
10	1.78	2.28	2.02	1.40	3.05	1.52	1.35	1.95	3.56	1.97	2.35	2.54
11	.65	2.30	2.15	1.53	3.13	1.65	1.09	2.10	3.60	2.03	2.21	2.57
12	1.25	2.32	2.25	1.76	3.17	1.72	1.37	2.27	2.80	2.10	2.27	2.60
13	1.32	2.35	2.30	1.94	3.05	1.75	1.18	2.43	2.10	2.15	2.34	1.84
14	1.35	2.38	2.39	2.06	3.11	1.82	1.37	2.52	1.85	1.90	1.09	1.74
15	1.38	2.40	2.48	2.15	3.17	1.20	1.48	2.63	2.08	2.10	1.38	1.88
16	1.41	2.42	2.53	2.22	3.20	1.23	1.65	2.70	1.59	2.22	1.47	2.03
17	1.52	2.45	2.57	1.99	3.27	1.17	1.78	2.75	1.72	2.29	1.38	2.11
18	1.58	2.48	2.60	2.26	3.31	.83	1.85	2.74	1.85	2.34	1.52	1.53
19	1.63	2.50	2.22	2.34	3.35	.53	1.93	2.82	1.93	2.40	1.61	1.59
20	1.68	2.52	2.18	2.40	2.54	1.16	2.00	2.86	2.08	2.44	1.76	1.72
21	1.71	1.95	2.35	2.43	2.62	1.30	2.08	2.92	2.23	2.50	1.85	1.85
22	1.76	2.00	2.49	2.22	2.73	1.35	2.17	2.73	1.42	2.55	1.92	1.97
23	1.82	2.12	2.58	2.27	2.87	1.44	2.25	2.68	1.30	2.60	1.87	2.05
24	1.85	1.80	2.63	2.39	2.98	1.50	1.97	2.90	1.25	2.64	2.00	2.12
25	1.88	1.78	2.67	1.67	3.08	1.63	2.17	3.00	1.44	2.67	2.05	2.17
26	1.91	2.02	2.70	1.89	3.15	1.75	2.05	3.05	.68	2.71	2.10	2.22
27	1.94	2.13	2.73	2.10	2.95	1.83	2.13	3.11	1.25	2.74	2.14	2.25
28	1.98	2.18	2.77	2.25	2.94	1.93	2.07	3.18	1.40	2.79	2.18	2.30
29	2.00		2.81	2.38	2.74	2.00	2.21	3.00	1.50	2.83	2.22	2.35
30	2.03		2.85	2.36	1.00	2.05	2.33	2.97	1.63	1.35	2.25	2.39
31	2.07		2.90		1.33		2.38	3.10		1.59		2.43

50. U. S. Geol. Survey. On Florida Highway 60, 2.8 miles west of Kissimmee River bridge. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, T. 31 S., R. 31 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 20 feet, cased to 12, gravel packed 9-20. Land-surface datum is 61 feet above msl. Highest water level 0.40 above lsd, Oct. 9, 1953; lowest 4.27 below lsd, Mar. 21, 1950. Records available: 1948-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.65	2.35	1.83	2.77	2.82	1.55	2.30	1.12	2.72	0.90	0.83	e1.39
2	1.71	2.36	2.10	2.81	2.90	1.17	2.37	1.62	2.79	.38	1.07	e1.46
3	1.58	2.40	1.72	2.85	2.95	.21	2.44	1.83	2.85	.80	1.34	e1.53
4	1.78	2.45	1.92	2.89	3.00	.00	2.52	1.96	2.90	1.13	1.49	e1.60
5	1.84	2.49	2.07	2.90	3.08	.16	1.83	2.07	2.95	1.45	1.55	e1.68
6	1.94	2.52	1.20	2.95	3.14	.36	1.77	2.16	2.98	1.55	1.70	e1.56
7	2.02	2.53	1.10	2.05	3.20	.60	1.66	2.25	3.02	1.65	1.83	e1.71
8	2.07	2.28	1.48	1.81	3.25	.90	.44	1.13	3.06	.89	1.92	e1.81
9	2.07	2.43	1.39	2.00	3.30	1.28	.51	1.50	3.12	1.11	1.98	e1.91
10	2.08	2.53	1.63	2.08	3.34	1.55	.65	1.12	3.18	1.37	2.03	e2.00
11	.55	2.55	1.77	1.41	3.40	1.78	.40	1.58	2.50	1.70	.95	e2.10
12	.93	2.58	1.90	1.84	3.43	1.93	.66	1.92	2.28	1.87	1.25	e2.20
13	1.17	2.62	1.93	2.00	3.38	2.09	1.05	2.13	.95	1.95	1.40	2.23
14	1.30	2.63	2.05	2.17	3.39	2.13	1.20	2.25	.90	1.12	.12	.98
15	1.36	2.65	2.21	2.32	3.44	1.52	1.40	2.35	1.28	1.65	.07	1.42
16	1.48	2.67	2.33	2.40	3.49	.48	1.59	2.45	.75	2.00	.14	1.62
17	1.65	2.70	2.38	2.27	3.50	.77	1.81	2.54	1.12	2.13	.22	1.67
18	1.70	2.72	2.43	2.54	3.53	.15	1.95	1.75	.85	2.18	.33	.44
19	1.78	2.74	1.65	2.63	3.57	.02	2.05	1.66	1.19	2.24	.44	.64
20	1.85	2.75	1.40	2.67	2.72	.17	2.15	2.02	1.48	2.28	.57	.86
21	1.90	1.77	1.75	2.72	2.68	.36	2.25	2.20	1.68	2.33	.78	1.05
22	1.97	1.69	1.92	2.75	2.80	.50	2.35	2.32	.53	2.38	.90	1.15
23	2.07	1.90	2.07	2.69	2.90	.57	2.43	1.83	.47	2.43	e.75	1.28
24	2.10	1.45	2.20	2.78	3.00	.90	1.83	2.24	.68	2.46	e.87	1.35
25	2.12	1.64	2.32	2.60	3.10	1.25	2.07	2.39	.85	2.48	e.95	1.42
26	2.17	1.80	2.42	2.68	3.15	1.52	.40	2.54	.08	2.52	e1.03	1.48
27	2.19	1.88	2.48	2.17	2.27	1.76	.34	2.63	.13	2.55	e1.10	1.52
28	2.25	1.92	2.55	2.47	2.21	1.95	.37	2.68	.25	2.59	e1.17	1.58
29	2.27		2.60	2.62	2.08	2.11	.75	2.35	.43	2.61	e1.25	1.65
30	2.31		2.67	2.72	1.17	2.22	1.15	2.55	.68	.42	e1.32	1.71
31	2.33		2.72		1.32		1.42	2.66		.65		1.75

e Estimated.

51. Mrs. Flora P. Coley. Formerly Mrs. William Falls. 48 First St., Frostproof. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 490 feet. Highest water level 3.68 below lsd, Oct. 25, 1953; lowest 14.13 below lsd, May 30, 1953. Records available: 1949-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	5.24	6.18	6.52	7.68	9.63	6.20	5.64	6.05	5.60	5.29	5.49
2	....	5.70	6.20	7.40	7.71	9.76	6.21	5.60	6.20	5.64	5.30	5.35
3	....	5.82	6.35	7.70	7.45	8.90	6.18	5.64	6.29	....	5.25	5.30
4	....	5.88	6.42	7.70	7.53	8.40	6.10	5.67	6.36	....	5.31	5.35
5	....	5.98	6.21	7.52	7.62	8.60	6.02	5.68	6.13	....	5.34	5.29
6	....	6.08	5.79	7.38	7.69	7.04	6.02	5.69	6.15	....	5.32	5.20
7	....	6.08	5.60	7.20	7.72	6.75	6.00	5.79	6.23	....	5.30	5.33
8	....	5.69	....	7.14	8.07	6.54	5.94	5.79	6.20	5.60	5.25	5.37
9	5.70	5.71	....	7.18	8.37	6.31	5.86	5.75	6.21	5.70	5.20	5.33
10	5.60	6.08	....	7.22	8.94	6.26	5.79	5.76	6.40	5.80	5.18	5.40
11	5.14	6.18	....	7.15	9.54	6.20	5.75	5.75	6.55	5.78	5.14	5.46
12	5.18	6.45	....	7.19	9.65	6.18	5.78	5.80	6.36	5.70	5.21	5.41
13	5.63	6.60	....	7.32	9.20	6.17	5.76	5.85	6.35	5.67	5.26	5.30
14	5.72	6.58	....	7.28	8.00	6.20	5.71	5.89	6.00	5.75	....	5.28
15	5.68	6.68	....	7.30	8.07	6.14	5.67	5.87	5.87	5.73	....	5.31
16	5.41	6.40	....	7.30	8.01	6.06	5.66	5.84	5.80	5.55	....	5.41
17	5.62	6.57	....	7.32	8.41	6.05	5.69	5.85	5.73	5.48	....	5.40
18	5.77	6.62	....	7.42	8.69	5.97	5.68	5.90	5.72	5.46	....	5.62
19	5.75	6.84	....	7.10	8.78	5.86	5.68	5.81	5.70	5.49	5.26	5.73
20	5.78	6.90	5.40	7.45	8.73	5.87	5.70	5.80	5.68	5.50	5.20	6.07
21	5.78	6.55	5.40	7.47	9.11	5.91	5.73	5.84	5.70	5.45	5.27	6.38
22	5.74	6.02	5.54	7.52	9.68	6.00	5.72	5.87	5.69	5.36	5.31	6.39
23	5.82	6.39	5.59	7.50	9.80	6.00	5.70	5.87	5.68	5.30	5.30	6.61
24	5.70	6.28	5.62	7.50	9.82	6.00	5.64	5.85	5.69	5.31	5.35	6.40
25	5.86	6.19	5.62	7.44	9.94	6.00	5.62	5.88	5.65	5.31	5.32	5.80
26	5.91	6.32	5.69	7.42	10.00	5.98	5.64	6.10	5.55	5.30	5.40	5.80
27	5.91	6.42	5.65	7.49	9.60	5.97	5.66	6.30	5.49	5.30	5.42	5.94
28	5.89	6.38	5.66	7.51	9.64	5.99	5.66	6.35	5.50	5.33	5.30	6.54
29	5.98	....	5.92	7.60	9.68	6.04	5.65	5.99	5.54	5.36	5.41	6.70
30	6.00	....	6.10	7.65	8.90	6.11	5.70	5.80	5.57	5.39	5.52	6.80
31	5.76	....	6.20	....	8.54	....	5.70	5.81	....	5.33	....	6.71

## Putnam County

28. R. O. Puckett. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 26, T. 12 S., R. 26 E. Fruitland. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 145 feet. Land-surface datum is 25.8 feet above msl. Highest water level 4.9 below lsd, Sept. 1943; lowest 8.1 below lsd, Apr. 20, 1939. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	5.78	Apr. 29	6.49	Aug. 4	7.68	Nov. 2	7.32
Mar. 19	6.15	June 11	7.60	Sept. 16	7.67	Dec. 14	7.44

29. C. L. Conway. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 1, T. 10 S., R. 26 E. Palatka. Drilled public-supply artesian well in Floridan aquifer, diameter 8 inches, reported depth 300 feet. Land-surface datum is 22.2 feet above msl. Highest water level 12.1 above lsd, Oct. 1, 1953; lowest 7.0 above lsd, Aug. 4, 1954. Records available: 1936-54.

Feb. 8	+9.5	Apr. 29	+8.4	Aug. 4	+7.0	Nov. 2	+8.3
Mar. 19	+8.6	June 11	+7.9	Sept. 16	+7.6	Dec. 14	+8.5

## St. Johns County

2. P. J. Manucy. Sec. 8, T. 7 S., R. 30 E. Vilano Beach. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 198 feet, cased to 195. Land-surface datum is 6.09 feet above msl. Highest water level 32.0 above lsd, Aug. 16, 1949; lowest 21.7 above lsd, Aug. 4, 1954. Records available: 1934, 1940-42, 1944-54.

Feb. 5	+26.5	May 19	+22.1	Aug. 4	+21.7	Nov. 2	+24.3
Mar. 31	+24.1	June 28	+22.2	Sept. 16	+23.7	Dec. 14	+25.5

3. Francis Usina. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 29, T. 7 S., R. 30 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 216 feet, cased to 104. Land-surface datum is 6.55 feet above msl. Highest water level 39.6 above lsd, June 22, 1934; lowest 27.2 above lsd, May 19, 1954. Records available: 1934, 1940-41, 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	+31.0	May 19	+27.2	Aug. 4	+29.5	Nov. 2	+30.6
Mar. 31	+29.7	June 28	+28.4	Sept. 16	+30.1	Dec. 14	+30.9

4. St. Johns County. Formerly Mill Creek School. SW $\frac{1}{4}$  sec. 6, T. 6 S., R. 28 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet, cased to 150. Land-surface datum is 26.74 feet above msl. Highest water level 22.2 above lsd, Aug. 31, 1934; lowest 14.8 above lsd, Apr. 1, Sept. 16, 1954. Records available: 1934, 1940, 1944-46, 1949-54. Feb. 5, +17.5; Apr. 1, +14.8; May 19, +15.2; June 28, +15.5; Aug. 4, +15.1; Sept. 16, +14.8; Nov. 2, +16.1.

5. G. L. Oesterricker. Sec. 28, T. 4 S., R. 29 E. Palm Valley. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 350 feet, cased to 180. Land-surface datum is 4.53 feet above msl. Highest water level 46.2 above lsd, Nov. 9, 1948; lowest 39.0 above lsd, Apr. 29, 1948. Records available: 1934, 1940, 1944-54.

Feb. 5	+44.9	May 19	+42.6	Aug. 4	+41.2	Nov. 2	+42.3
Mar. 31	+44.2	June 28	+42.4	Sept. 16	+41.3	Dec. 14	+42.5

8. Ponce de Leon Raceway, Inc. Formerly Parish Bros. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 4, T. 5 S. R. 28 E. Drilled stock artesian well in Floridan aquifer, diameter 6 inches, reported depth 336 feet, cased to 240. Land-surface datum is 17.77 feet above msl. Highest water level 36.5 above lsd, June 2, 1947; lowest 27.8 above lsd, Sept. 10, 1953. Records available: 1934, 1940-42, 1944, 1946-54.

Feb. 5	+32.1	May 19	+30.5	Aug. 4	+29.3	Nov. 2	+30.3
Mar. 31	+30.8	June 28	+30.0	Sept. 16	+29.6	Dec. 14	+30.5

9. Ponce de Leon Hotel. St. Augustine. Sec. 9, T. 4 S., R. 29 E. Drilled unused artesian well in Floridan aquifer, diameter 13 inches, depth 1,400 feet, cased to 170. Highest water level 34.2 above lsd, June 2, 1947; lowest 25.6 above lsd, Aug. 4, 1954. Records available: 1930, 1940, 1946-54.

Feb. 5	+29.1	May 19	+25.9	Aug. 4	+25.6	Nov. 2	+27.3
Mar. 31	+27.2	June 28	+25.9	Sept. 16	+26.7	Dec. 14	+27.6

#### Santa Rosa County

8. P. L. Coleman. SK $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 6, T. 2 S., R. 26 W. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, depth 1,063 feet, cased to 716. Land-surface datum is 11.82 feet above msl. Highest water level 63.0 above lsd, Mar. 9, 1949; lowest 52.4 above lsd, Oct. 19, Nov. 30, 1954. Records available: 1947-54.

Jan. 12	+52.5	May 21	+53.5	July 28	+55.5	Oct. 19	+52.4
Feb. 24	+54.2	July 8	+53.2	Sept. 8	+55.0	Nov. 30	+52.4
Apr. 8	+53.9						

102. U. S. Geol. Survey. SE $\frac{1}{4}$  sec. 4, T. 3 S., R. 29 W. Gulf Breeze. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 41 feet, screen 33-41. Land-surface datum is 11.56 feet above msl. Highest water level 4.42 below lsd, Jan. 2, 1954; lowest 10.48 below lsd, Dec. 31, 1954. Records available: 1950-54. Recording gage installed May 29, 1951.

Aug. 8, 1950	7.53	Aug. 29, 1950	7.85	Sept. 13, 1950	6.34	Oct. 30, 1950	7.37
9	7.57	Sept. 4	6.31	15	6.37	Nov. 6	7.49
10	7.58	5	6.33	18	6.49	10	7.56
14	7.66	6	6.28	22	6.64	13	7.61
15	7.65	7	6.24	Oct. 2	6.80	20	7.71
16	7.68	8	6.25	3	6.85	Dec. 12	8.02
17	7.75	11	6.23	17	7.21	18	8.12
21	7.74	12	6.31	23	7.28	25	8.22

#### Daily mean water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h8.31	....	....	....	....	7.47	7.29	7.23	....	6.58	....	7.25
2	....	....	....	h7.63	....	7.49	7.31	7.23	....	6.56	....	7.26
3	....	....	....	....	....	7.51	7.37	7.24	....	6.55	....	7.27
4	....	....	....	....	....	7.52	7.40	7.26	7.96	6.54	....	7.27
5	....	h8.68	h8.95	....	....	7.53	7.41	7.28	7.97	6.54	....	7.18
6	....	....	....	....	....	7.54	7.45	7.29	....	6.52	....	7.03
7	....	....	....	....	h7.02	7.55	7.50	7.30	....	6.50	....	7.01
8	h8.39	....	....	....	....	7.56	7.57	7.29	....	6.50	....	7.00
9	....	....	....	h7.47	....	7.58	7.61	7.31	8.00	6.51	....	6.95
10	....	....	....	....	....	7.61	7.63	7.37	8.03	6.53	....	6.94

## 102--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	....	....	....	....	....	7.62	7.64	7.41	7.96	6.57	....	6.93
12	....	h8.74	h9.02	....	....	7.64	7.66	7.46	7.92	6.63	....	6.92
13	....	....	....	....	....	7.67	7.68	7.50	7.89	6.65	....	....
14	....	....	....	....	h7.14	7.68	7.70	7.52	7.85	6.68	....	....
15	h8.46	....	....	....	....	7.70	7.71	7.55	7.85	6.70	6.99	....
16	....	....	....	h7.42	....	7.70	7.72	7.56	7.85	6.72	7.02	....
17	....	....	....	....	....	7.71	7.74	7.60	7.84	6.76	7.04	....
18	....	....	....	....	....	7.71	7.76	7.62	7.78	6.78	7.05	....
19	....	h8.82	....	....	....	7.55	7.77	7.65	7.75	6.81	7.02	....
20	....	....	h7.94	....	....	7.39	7.79	7.68	7.70	6.83	7.08	....
21	....	....	....	....	h7.38	7.38	7.81	7.71	7.60	6.85	7.09	6.95
22	h8.55	....	....	....	....	7.35	7.83	7.73	7.12	6.87	7.10	6.98
23	....	....	....	h7.13	....	7.30	7.84	7.76	6.99	6.88	7.10	6.98
24	....	....	....	....	....	7.28	7.86	7.78	6.95	6.89	7.12	6.99
25	....	....	....	....	....	7.27	7.88	7.80	6.92	6.90	7.16	7.00
26	....	h8.88	h7.65	....	....	7.25	7.89	7.83	6.88	6.92	7.17	7.02
27	....	....	....	....	....	7.23	7.92	7.88	6.82	6.93	7.18	7.04
28	....	....	....	....	h7.43	7.22	7.94	7.91	6.72	6.95	7.20	7.05
29	h8.63	....	....	....	....	7.22	7.95	7.92	6.67	6.97	7.22	7.05
30	....	....	....	....	7.44	7.27	7.45	7.93	6.64	6.98	7.25	7.06
31	....	....	....	....	7.45	....	7.25	7.95	....	6.98	....	7.08

h Tape measurement.

## Daily mean water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.10	....	....	6.61	6.57	7.26	8.04	8.61	8.63	7.89	8.43	8.91
2	7.12	....	....	6.53	6.58	7.30	8.06	8.82	8.83	7.88	8.44	8.92
3	7.13	....	....	6.52	6.60	7.33	8.09	8.85	8.81	7.88	8.46	8.93
4	7.14	....	....	....	6.63	7.37	8.13	8.88	8.82	7.88	8.49	8.94
5	7.15	....	....	....	6.65	7.38	8.16	8.89	8.81	7.88	8.51	8.94
6	7.17	....	....	....	6.68	7.40	8.20	8.92	8.78	7.90	8.52	8.98
7	7.18	....	....	....	6.71	7.42	8.22	8.76	8.78	7.91	8.54	8.97
8	7.20	....	....	....	6.73	7.44	8.24	8.62	8.78	7.91	8.56	8.96
9	7.22	....	....	....	6.76	7.48	8.27	8.61	8.77	7.92	8.57	8.98
10	7.24	....	....	....	6.78	7.52	8.28	8.61	8.77	7.94	8.58	8.98
11	7.25	....	....	....	6.83	7.53	8.31	8.61	8.76	7.96	8.59	8.98
12	7.26	....	....	....	6.85	7.55	8.33	8.62	8.75	7.99	8.59	8.98
13	7.27	....	....	....	6.89	7.58	....	8.64	8.78	8.03	8.60	8.99
14	7.28	....	....	....	6.93	7.60	....	8.65	8.50	8.05	8.63	9.00
15	7.30	....	....	....	6.93	7.62	....	8.68	8.32	8.08	8.64	9.00
16	7.31	....	....	....	6.95	7.64	....	8.68	8.25	8.10	8.65	9.01
17	7.33	....	....	....	6.98	7.66	8.48	8.67	8.20	8.13	8.66	9.03
18	7.35	....	....	....	6.99	7.70	8.49	8.68	8.16	8.14	8.68	9.05
19	7.36	....	....	....	7.01	7.73	8.50	8.71	8.14	8.16	8.70	9.05
20	....	....	6.73	....	7.02	7.74	8.53	8.71	8.11	8.19	8.74	9.05
21	....	....	6.73	6.31	7.04	7.76	8.56	8.73	8.07	8.23	8.75	9.05
22	....	....	6.73	6.33	7.05	7.79	8.58	8.75	8.02	8.23	8.75	9.08
23	....	....	6.76	6.36	7.07	7.81	8.60	8.77	7.98	8.24	8.75	9.09
24	....	....	6.80	6.40	7.08	7.83	8.62	8.78	7.96	8.26	8.76	9.11
25	....	....	6.80	6.42	7.11	....	8.63	8.78	7.94	8.31	8.78	9.12
26	....	....	6.80	6.44	7.13	....	8.68	8.78	7.94	8.33	8.80	9.12
27	....	....	6.84	6.49	7.16	....	8.70	8.78	7.93	8.35	8.83	9.13
28	....	....	6.88	6.50	7.19	7.95	8.72	8.78	7.93	8.37	8.85	9.13
29	....	....	6.89	6.51	7.20	7.98	8.74	8.79	7.92	8.41	8.88	9.15
30	....	....	6.92	6.54	7.23	8.02	8.76	8.78	7.90	8.43	8.89	9.15
31	....	....	6.89	....	7.25	....	8.79	8.79	....	8.43	....	9.15

## Daily mean water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.19	9.38	7.52	6.75	6.88	7.69	7.98	8.69	8.02	6.58	7.17	7.00
2	9.21	9.38	7.55	6.78	6.92	7.72	7.98	8.71	7.99	6.55	7.20	7.00
3	9.21	9.37	7.57	6.81	6.96	7.75	8.03	8.73	7.96	6.55	7.23	7.01
4	9.21	9.33	7.56	6.85	7.00	7.75	8.09	8.75	7.95	6.53	7.23	6.87
5	9.21	9.35	7.55	6.87	7.01	7.78	8.15	8.76	7.94	6.58	6.95	6.75
6	9.22	9.25	7.54	6.86	7.01	7.79	8.20	8.77	7.93	6.56	6.90	6.58
7	9.23	9.10	7.54	6.89	7.01	7.82	8.25	8.79	7.93	6.56	6.88	6.33
8	9.24	8.92	7.58	6.91	7.03	7.85	8.28	8.80	7.92	6.65	6.91	6.23
9	9.24	8.82	7.62	6.94	7.05	7.90	8.28	8.75	7.92	6.65	7.00	6.16
10	9.25	8.76	7.62	6.95	7.08	7.93	8.30	8.70	7.92	6.64	7.00	6.12

## 102--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	9.25	8.72	7.62	6.97	7.12	7.95	8.33	8.59	7.93	6.73	7.01	6.09
12	9.26	8.67	7.66	6.86	7.13	7.98	8.33	8.53	7.93	6.74	7.09	6.04
13	9.27	8.65	7.70	6.69	7.16	8.01	8.35	8.50	7.96	6.79	7.11	5.88
14	9.30	8.60	7.73	6.65	7.17	8.02	8.37	8.51	7.99	6.82	7.12	5.53
15	9.32	8.18	7.40	6.63	7.21	8.05	8.38	8.53	8.02	6.83	7.12	5.45
16	9.32	7.99	6.85	6.65	7.25	8.07	8.39	8.54	8.05	6.88	7.15	5.44
17	9.33	7.83	6.75	6.62	7.26	8.10	8.39	8.53	8.07	6.91	7.23	5.44
18	9.33	7.75	6.71	6.60	7.27	8.13	8.40	8.48	8.09	6.95	7.23	5.46
19	9.35	7.70	6.67	6.63	7.30	8.14	8.41	8.45	8.12	6.96	7.25	5.47
20	9.37	7.67	6.64	6.67	7.34	8.16	8.43	8.42	8.15	6.97	7.25	5.38
21	9.37	7.63	6.61	6.72	7.38	8.18	8.45	8.42	8.16	6.97	7.24	4.88
22	9.37	7.60	6.60	6.76	7.40	8.20	8.48	8.42	8.18	6.98	7.21	4.76
23	9.39	7.59	6.58	6.79	7.41	8.22	8.54	8.42	8.20	6.98	7.09	4.70
24	9.39	7.60	6.59	6.80	7.42	8.25	8.55	8.42	8.23	7.03	7.03	4.70
25	9.38	7.58	6.61	6.79	7.44	8.27	8.56	8.42	8.20	7.04	7.01	4.71
26	9.38	7.55	6.63	6.82	7.45	8.29	8.58	8.40	7.36	7.07	6.99	4.72
27	9.38	7.54	6.65	6.83	7.50	8.30	8.60	8.36	6.75	7.08	6.98	4.70
28	9.37	7.53	6.68	6.84	7.54	8.24	8.62	8.29	6.67	7.09	6.98	4.66
29	9.37		6.70	6.83	7.58	8.09	8.64	8.18	6.63	7.12	7.01	4.64
30	9.40		6.71	6.84	7.61	8.00	8.65	8.11	6.60	7.15	7.01	4.50
31	9.39		6.70		7.64		8.68	8.06		7.15		4.45

## Daily mean water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.43	5.11	5.93	6.73	7.38	8.16	8.97	9.46	9.95	10.17	10.32	10.27
2	4.42	5.13	5.95	6.77	7.42	8.19	9.00	9.48	9.97	10.17	10.31	10.29
3	4.43	5.19	6.00	6.78	7.43	8.22	9.03	9.49	9.97	10.17	10.33	10.31
4	4.43	5.25	6.04	6.77	7.47	8.25	9.05	9.48	9.97	10.17	10.30	10.32
5	4.43	5.26	6.05	6.77	7.50	8.29	9.08	9.50	9.99	10.19	10.29	10.33
6	4.45	5.34	6.10	6.81	7.51	8.30	9.10	9.53	10.00	10.20	10.33	10.34
7	4.52	5.39	6.12	6.86	7.52	8.33	9.13	9.55	10.03	10.20	10.32	10.35
8	4.55	5.40	6.12	6.89	7.57	8.37	9.14	9.57	10.04	10.20	10.34	10.36
9	4.60	5.40	6.15	6.88	7.59	8.40	9.15	9.59	10.05	10.20	10.33	10.37
10	4.60	5.40	6.17	6.92	7.64	8.42	9.17	9.61	10.06	10.18	10.35	10.37
11	4.58	5.41	6.22	6.92	7.66	8.45	9.20	9.63	10.08	10.18	10.34	10.38
12	4.67	5.48	6.23	6.91	7.68	8.48	9.23	9.64	10.09	10.22	10.30	10.39
13	4.75	5.50	6.27	6.94	7.71	8.50	9.25	9.63	10.08	10.23	10.29	10.39
14	4.80	5.51	6.32	6.98	7.75	8.53	9.27	9.65	10.09	10.23	10.27	10.39
15	4.79	5.54	6.37	7.02	7.79	8.55	9.29	9.67	10.10	10.23	10.26	10.39
16	4.79	5.55	6.37	7.02	7.83	8.56	9.33	9.70	10.08	10.24	10.28	10.39
17	4.83	5.60	6.40	7.05	7.86	8.58	9.34	9.72	10.02	10.25	10.27	10.40
18	4.88	5.65	6.44	7.06	7.88	8.62	9.35	9.74	10.00	10.26	10.28	10.41
19	4.90	5.67	6.44	7.11	7.92	8.65	9.38	9.75	10.04	10.25	10.29	10.42
20	4.93	5.69	6.44	7.15	7.95	8.65	9.39	9.77	10.07	10.23	10.29	10.43
21	4.95	5.71	6.46	7.17	7.98	8.66	9.40	9.79	10.08	10.28	10.27	10.43
22	4.90	5.76	6.52	7.21	8.00	8.68	9.41	9.80	10.09	10.26	10.26	10.44
23	4.92	5.80	6.55	7.25	8.02	8.72	9.44	9.82	10.10	10.28	10.25	10.44
24	4.94	5.80	6.55	7.28	8.05	8.75	9.45	9.84	10.12	10.27	10.25	10.45
25	5.01	5.84	6.55	7.28	8.07	8.79	9.44	9.85	10.13	10.29	10.25	10.45
26	5.02	5.85	6.56	7.32	8.08	8.82	9.44	9.87	10.12	10.28	10.24	10.45
27	5.03	5.87	6.61	7.32	8.09	8.81	9.46	9.88	10.14	10.30	10.23	10.45
28	5.05	5.89	6.63	7.33	8.10	8.88	9.47	9.89	10.15	10.29	10.23	10.46
29	5.06		6.66	7.37	8.12	8.91	9.45	9.90	10.15	10.30	10.23	10.47
30	5.10		6.67	7.37	8.13	8.94	9.43	9.92	10.16	10.31	10.24	10.47
31	5.10		6.68		8.15		9.45	9.94		10.30		10.48

## Sarasota County

5. H. E. Turner. Formerly R. M. Canty. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 36 S., R. 20 E. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 720 feet. Land-surface datum is 43.60 feet above msl. Highest water level 3.25 below lsd, Oct. 3, 1943; lowest 9.09 below lsd, June 4, 1953. Records available: 1941-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.35	5.70	6.74	7.24	7.00	6.61	5.80	5.18	5.43	5.37	6.41	6.48
2	5.32	5.68	6.75	7.26	6.95	6.58	5.80	5.34	5.55	5.30	6.40	6.39
3	5.29	5.68	6.73	7.32	6.92	6.49	5.81	5.46	5.55	5.41	6.48	6.38
4	5.25	5.74	6.80	7.39	6.87	6.50	5.76	5.50	5.57	5.41	6.50	6.45
5	5.18	5.87	6.76	7.44	6.84	6.44	5.75	5.50	5.60	5.32	6.49	6.44

## 5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	5.17	5.98	6.70	7.34	6.81	6.44	5.74	5.47	5.58	5.23	6.56	6.39
7	5.25	6.08	6.70	7.23	6.81	6.40	5.77	5.46	5.55	5.21	6.65	6.59
8	5.26	6.10	6.68	7.17	6.85	6.39	5.77	5.50	5.52	5.30	6.72	6.63
9	5.25	6.15	6.58	7.15	6.90	6.31	5.74	5.53	5.50	5.29	6.76	6.58
10	5.21	6.17	6.55	7.23	6.90	6.27	5.73	5.55	5.50	5.26	6.80	6.65
11	5.11	6.20	6.55	7.21	6.90	6.22	5.71	5.56	5.55	5.23	6.85	6.73
12	5.28	6.32	6.56	7.17	6.87	6.20	5.67	5.60	5.60	5.24	6.87	6.72
13	5.31	6.48	6.59	7.15	6.93	6.21	5.73	5.66	5.67	5.23	6.86	6.65
14	5.27	6.56	6.57	7.10	6.89	6.19	5.66	5.73	5.67	5.18	6.77	6.62
15	5.18	6.55	6.73	7.10	6.84	6.11	5.51	5.76	5.70	5.19	6.71	6.64
16	5.09	6.57	6.85	7.13	6.83	6.00	5.55	5.76	5.67	5.36	6.65	6.70
17	5.14	6.57	6.87	7.15	6.81	6.02	5.50	5.76	5.66	5.50	6.59	6.66
18	5.19	6.60	6.82	7.15	6.82	5.98	5.54	5.78	5.64	5.54	6.56	6.58
19	5.19	6.64	6.76	7.15	6.83	5.97	5.64	5.79	5.60	5.54	6.50	6.56
20	5.19	6.67	6.73	7.14	6.83	5.92	5.63	5.77	5.57	5.56	6.53	6.58
21	5.21	6.68	6.75	7.16	6.80	5.91	5.63	5.79	5.55	5.63	6.52	6.56
22	5.21	6.75	6.84	7.12	6.83	5.93	5.63	5.81	5.51	5.74	6.49	6.51
23	5.29	6.75	6.89	7.16	6.86	5.92	5.63	5.85	5.50	5.78	6.40	6.52
24	5.37	6.65	6.95	7.15	6.90	5.77	5.42	5.81	5.48	5.95	6.39	6.50
25	5.44	6.72	6.97	7.07	6.88	5.70	5.39	5.78	5.45	6.00	6.35	6.55
26	5.47	6.72	7.03	7.04	6.87	5.77	5.42	5.79	5.30	6.05	6.36	6.59
27	5.48	6.73	7.02	6.94	6.79	5.77	5.30	5.83	5.10	6.10	6.32	6.58
28	5.48	6.64	7.02	6.90	6.74	5.74	5.38	5.85	5.25	6.13	6.27	6.54
29	5.54		7.06	6.92	6.75	5.73	5.40	5.76	5.28	6.14	6.36	6.52
30	5.60		7.11	6.97	6.76	5.75	5.33	5.65	5.33	6.21	6.47	6.55
31	5.65		7.17		6.72		5.40	5.50		6.34		6.59

9. Palmer Corp. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 20, T. 36 S., R. 19 E. Drilled unlined artesian well in Floridan aquifer, diameter 6 inches, reported depth 730 feet, cased to 101. Land-surface datum is 33.56 feet above msl. Highest water level 5.20 above lsd, Mar. 7, 1931; lowest 5.33 below lsd, Mar. 10, 1951. Records available: 1930-37, 1941-54.

## Daily mean water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.54	-2.00	-1.93	-4.12	-2.42	-1.35	-0.67	....	+0.12	....	-2.02	-2.02
2	....	2.07	1.95	3.77	2.52	1.29	.77	....	+0.07	....	2.23	2.12
3	....	2.32	2.10	3.69	2.50	1.25	.84	....	-.02	....	2.55	2.20
4	.59	2.52	2.84	3.58	2.10	1.18	.83	....	.17	....	2.78	2.39
5	.46	3.01	3.41	2.94	1.95	1.17	.84	....	.13	....	2.72	2.20
6	.44	2.95	2.84	2.76	1.98	1.18	.78	....	.08	....	2.65	1.85
7	.51	2.81	2.22	2.52	2.13	1.14	.68	....	.12	....	2.95	1.97
8	.69	2.44	2.20	2.35	2.51	1.09	.74	....	.18	....	2.80	2.04
9	.88	2.14	2.18	2.31	2.47	1.17	.70	....	.35	....	2.75	2.05
10	.83	2.28	2.20	2.25	2.55	1.15	.69	....	.62	....	3.25	2.22
11	.65	2.46	2.65	2.23	2.56	1.02	.67	....	.71	....	3.16	2.62
12	.36	2.47	2.82	2.22	2.18	.88	.59	....	.67	....	2.66	2.80
13	.28	2.64	2.93	2.30	2.10	.81	.58	....	.92	....	2.36	2.22
14	.28	2.72	2.81	2.46	2.09	.92	.56	....	1.18	....	1.75	1.65
15	.36	2.73	3.31	2.64	2.08	.90	.63	....	1.25	....	1.54	1.52
16	.32	2.92	3.56	3.11	1.92	.82	....	....	1.28	....	1.45	1.76
17	.26	3.85	3.82	3.25	1.94	.83	....	....	.96	....	1.40	1.93
18	.27	3.70	3.48	2.89	1.93	.80	....	....	.60	....	1.37	1.54
19	.46	3.74	2.95	2.78	1.85	.75	....	....	.41	....	1.38	1.30
20	.62	3.61	2.38	2.94	1.77	.74	....	....	.40	....	1.27	1.31
21	1.25	3.12	2.18	3.15	1.77	.65	....	....	.33	....	1.20	1.58
22	1.46	2.51	2.54	3.13	1.90	.62	....	....	.17	-1.82	1.55	1.61
23	1.20	2.64	2.98	3.02	2.20	.61	....	....	.12	2.05	1.07	1.70
24	1.55	2.65	3.44	2.79	2.03	.71	....	....	.08	2.08	.95	1.81
25	1.73	2.38	3.57	2.42	1.98	.80	....	....	.11	2.17	1.07	1.61
26	1.74	2.36	3.57	2.34	1.75	.74	....	-0.20	.07	2.20	1.32	1.91
27	1.94	2.50	3.51	2.25	1.55	.77	....	.22	.01	2.25	1.70	2.07
28	2.28	2.20	3.51	2.11	1.51	.76	....	.35	.07	2.26	1.68	1.78
29	2.32		3.72	2.02	1.59	.80	....	-.18	.06	2.22	1.90	2.10
30	2.22		4.03	2.01	1.52	.74	....	+.05	....	2.00	1.97	1.96
31	2.15		3.71		1.45		....	+.12	....	2.26		2.57



## Taylor County

35. Buckeye Cellulose Corp. Formerly Brooks-Scanlon Corp. NE $\frac{1}{4}$  sec. 10, T. 5 S., R. 8 E. Drilled unused artesian well in Floridan aquifer, diameter 17 to 12 inches, depth 245 feet, cased to 189. Highest water level 0.69 above lsd, Apr. 2, 1948; lowest 23.46 below lsd, Dec. 13, 1954. Records available: 1946-54.

Daily highest water level, above and below lsd, from recorder graph\*

Day	Mar.	Apr.	May	June	July	Aug.	Oct.	Nov.	Dec.
1	.....	4.70	4.00	6.07	18.26	17.62	.....	20.42	.....
2	.....	4.65	3.95	7.24	18.55	16.97	.....	19.46	.....
3	.....	4.61	3.98	6.30	16.11	14.63	17.80	20.26	20.70
4	.....	4.61	4.37	6.90	17.99	18.52	19.65	20.15	22.56
5	.....	4.97	4.46	14.48	17.47	18.41	19.97	20.57	22.40
6	.....	4.76	4.54	13.94	17.83	16.26	20.08	19.63	22.43
7	.....	4.90	4.57	14.70	8.57	11.93	19.90	21.23	22.30
8	.....	5.00	4.70	6.34	8.28	10.04	15.16	21.78	.....
9	2.50	4.84	4.72	7.40	16.58	13.10	17.98	21.78	.....
10	2.24	4.96	4.55	8.13	9.74	10.40	20.84	19.93	.....
11	2.67	4.92	2.03	6.81	9.60	11.23	21.35	19.89	21.84
12	2.75	4.70	....	6.78	8.50	13.85	18.61	21.80	22.79
13	2.37	4.61	2.23	13.21	11.84	15.80	19.54	22.30	21.97
14	2.32	4.54	2.90	14.30	16.67	12.60	19.31	.....	22.02
15	2.37	....	3.29	16.20	15.35	13.58	19.40	.....	20.47
16	2.89	3.66	3.11	14.46	17.22	16.68	20.10	.....	14.02
17	2.69	3.74	3.61	13.62	13.06	14.10	20.48	.....	13.35
18	2.87	3.77	3.58	15.68	16.80	13.70	21.22	19.21	13.07
19	2.46	3.84	3.65	16.40	16.30	14.96	19.47	22.35	12.92
20	2.03	3.90	4.18	15.80	18.18	17.24	20.50	22.35	12.79
21	2.02	4.08	6.00	14.00	13.86	10.16	20.34	22.40	12.82
22	2.05	3.96	5.92	9.68	13.86	10.50	21.52	21.28	21.66
23	2.60	3.85	5.93	12.20	9.28	12.64	21.75	20.49	22.30
24	2.63	3.53	5.97	11.97	16.27	13.33	19.40	.....	16.82
25	2.89	3.44	5.97	7.66	17.58	15.45	16.68	.....	.....
26	4.36	3.57	6.51	4.16	17.20	15.73	16.64	.....	.....
27	13.53	3.76	6.57	13.80	17.60	17.30	11.70	.....	.....
28	13.50	3.76	6.82	14.10	17.12	18.08	11.67	.....	.....
29	11.72	3.93	6.14	14.68	17.58	18.11	13.93	.....	.....
30	5.11	3.93	6.03	16.07	15.22	18.00	16.80	.....	.....
31	.....	.....	5.87	.....	17.30	.....	16.69	.....	.....

\* No record for January, February, and September.

Daily lowest water level, above and below lsd, from recorder graph\*

Day	Mar.	Apr.	May	June	July	Aug.	Oct.	Nov.	Dec.
1	.....	4.82	4.17	14.60	18.62	19.44	.....	21.00	.....
2	.....	4.75	4.03	15.86	18.80	19.68	.....	21.10	.....
3	.....	4.69	11.98	15.90	18.97	19.66	21.13	21.14	23.36
4	.....	5.12	4.46	14.60	19.26	19.66	21.15	21.37	23.40
5	.....	5.16	4.55	16.34	19.53	19.58	20.70	21.62	23.30
6	.....	5.15	12.24	15.74	18.23	19.30	20.68	21.59	23.00
7	.....	5.18	6.89	15.68	18.30	19.12	21.07	21.81	22.98
8	.....	5.18	4.96	15.72	17.82	17.70	20.34	22.20	.....
9	2.65	5.17	12.45	15.83	18.52	19.64	21.00	22.30	.....
10	2.67	5.24	13.62	15.46	17.41	19.14	21.44	23.18	.....
11	2.75	5.19	14.40	12.80	15.94	16.50	21.52	22.36	23.20
12	2.83	4.99	13.82	14.50	16.00	17.92	21.50	22.52	23.42
13	2.83	4.72	13.93	17.54	16.90	17.80	21.60	22.56	23.46
14	2.40	4.64	3.90	17.30	17.28	15.98	21.57	.....	23.22
15	2.90	5.20	5.03	17.38	17.23	17.50	21.39	.....	23.02
16	3.00	5.45	4.27	17.52	17.55	17.56	21.56	.....	20.47
17	3.02	4.28	5.66	17.22	17.54	17.99	21.38	.....	14.02
18	3.07	3.85	4.35	17.80	18.00	17.14	21.60	22.54	13.36
19	3.07	3.92	5.85	17.91	18.18	17.62	21.58	22.74	13.07
20	2.46	4.79	13.55	17.95	18.32	18.66	21.70	22.63	12.92
21	2.07	14.20	13.15	18.07	18.38	18.10	21.58	22.70	21.99
22	2.60	14.08	12.84	17.41	18.27	17.22	22.03	22.74	22.35
23	10.49	12.28	13.58	17.76	18.30	17.60	21.98	22.67	22.62
24	10.85	3.85	9.18	18.50	18.26	17.20	21.91	.....	22.66
25	13.04	3.72	14.16	18.28	18.46	16.93	19.28	.....	.....

## 35--Continued.

Day	Mar.	Apr.	May	June	July	Aug.	Oct.	Nov.	Dec.
26	13.73	3.80	15.52	17.44	18.56	17.80	17.51	.....	.....
27	13.82	3.91	15.83	17.82	18.61	18.84	16.85	.....	.....
28	13.62	3.98	15.10	18.40	18.30	19.04	19.18	.....	.....
29	13.62	11.08	15.00	18.28	19.40	19.35	17.42	.....	.....
30	14.72	5.10	8.20	18.43	19.36	18.57	20.22	.....	.....
31	15.26		6.22		19.25	.....	20.80	.....	.....

\* No record for January, February, and September.

36. Buckeye Cellulose Corp. Formerly Brooks-Scanlon Corp. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 5 S., R. 8 E. Foley. Drilled unused water-table well in sand of Pleistocene age, diameter 6 inches, depth 35 feet. Highest water level 2.65 below lsd, Apr. 2, 1948; lowest 20.27 below lsd, Nov. 22, 1954. Records available: 1947-54.

## Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.50	6.75	8.03	11.00	12.22	14.83	17.00	17.16	16.40	17.84	.....	.....
2	4.55	e6.84	8.12	11.13	e12.20	15.07	17.15	17.20	16.40	17.86	.....	.....
3	4.60	7.10	8.35	11.25	12.30	15.11	17.27	17.24	16.37	17.92	.....	.....
4	4.65	7.32	8.70	10.92	12.56	15.20	17.12	17.33	16.45	18.02	.....	.....
5	4.67	7.49	8.85	10.75	12.70	15.25	17.08	17.31	16.60	18.08	.....	.....
6	4.75	7.65	8.79	10.74	12.78	15.38	17.26	17.28	16.71	18.15	.....	.....
7	4.83	7.80	8.48	10.70	12.88	15.45	17.12	17.34	16.80	18.20	.....	.....
8	4.89	e7.92	8.77	10.60	12.98	15.50	17.08	17.20	16.90	18.20	.....	.....
9	4.94	8.17	9.06	10.73	12.96	15.59	17.10	17.09	16.87	18.25	.....	.....
10	4.95	8.44	8.98	10.80	13.05	15.50	16.49	17.06	16.82	18.36	.....	.....
11	4.95	8.50	9.25	10.83	13.21	15.54	16.07	16.65	16.85	18.46	.....	.....
12	5.04	e8.55	9.40	11.00	13.34	15.71	15.89	16.28	16.99	18.54	.....	.....
13	5.10	8.20	9.20	11.23	13.53	15.86	15.92	16.18	17.15	18.57	.....	.....
14	5.17	8.13	8.95	11.34	13.61	15.95	16.01	15.98	17.24	18.67	.....	.....
15	5.25	e8.16	9.21	11.22	13.72	16.10	16.02	15.84	17.33	18.70	.....	.....
16	5.35	....	9.58	11.19	13.82	16.20	16.10	15.85	17.41	18.80	19.94	.....
17	5.41	7.72	9.67	11.49	....	16.30	16.13	15.80	17.46	18.84	20.04	.....
18	5.47	7.88	9.80	11.60	....	16.40	16.20	15.77	17.45	18.90	20.07	.....
19	5.51	7.91	9.87	11.70	....	16.55	16.32	15.80	17.44	18.95	20.12	.....
20	5.56	7.94	9.65	11.80	....	16.66	16.41	15.86	17.52	19.00	20.17	.....
21	5.59	7.97	9.34	11.88	....	16.76	16.40	15.70	17.58	19.05	20.20	.....
22	5.62	7.97	9.60	11.91	14.40	16.72	16.44	15.53	17.22	19.14	.....	.....
23	5.67	....	9.98	12.04	14.47	16.61	16.40	15.64	16.64	.....	.....	.....
24	5.72	....	10.15	11.71	14.54	16.56	16.39	15.62	16.72	.....	.....	.....
25	5.74	....	10.34	11.65	14.61	16.09	16.59	15.64	17.15	.....	.....	.....
26	5.83	....	10.35	11.86	14.77	16.20	16.71	15.72	17.34	.....	.....	.....
27	6.04	8.03	10.50	11.97	14.89	16.35	16.79	15.88	17.50	.....	.....	.....
28	6.17	8.03	10.60	12.11	14.89	16.48	16.84	16.05	17.63	.....	.....	.....
29	6.27		10.68	12.17	14.67	16.40	16.94	16.19	17.70	.....	.....	.....
30	6.40		10.64	12.23	14.69	16.82	16.99	16.28	17.77	.....	.....	.....
31	6.64		10.60		14.62		17.03	16.35		.....	.....	.....

e Estimated.

## Volusia County

24. City of New Smyrna. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 190 feet, cased to 78. Land-surface datum is 17.70 feet above msl. Highest water level 3.15 below lsd, Oct. 29, 1949; lowest 16.07 below lsd, July 24, 1952. Records available: 1948-54.

## Corrected measurements below lsd

Date	Daily water level		Date	Daily water level	
	Highest	Lowest		Highest	Lowest
June 6, 1952	13.02	15.42	June 18, 1952	7.82	13.87
7	13.07	15.70	19	13.79	13.89
8	8.84	15.65	20	13.86	13.92
9	8.22	15.65	21	13.88	13.93
10	8.25	15.45	22	8.79	13.94
11	13.00	15.26	23	13.80	13.93
12	13.20	15.66	24	13.25	15.61
13	7.88	14.55	25	13.31	15.64
14	7.68	13.72	26	13.48	15.67
15	8.85	13.80	27	13.32	15.66
16	7.88	15.21	28	13.31	15.66
17	13.78	13.95	29	13.31	15.21

24--Continued.

Date	Daily water level		Date	Daily water level	
	Highest	Lowest		Highest	Lowest
June 30, 1952	13.30	15.66	July 9, 1952	8.43	13.80
July 1	13.45	15.66	10	7.65	13.62
2	13.42	15.66	11	7.90	13.77
3	8.51	14.07	12	7.68	13.78
4	8.04	13.95	13	7.66	13.77
5	8.27	13.85	14	7.88	13.69
6	8.20	13.86	15	7.57	13.65
7	7.76	13.80	16	7.94	13.76
8	7.66	13.80	17	8.24	13.80

Daily highest water level from recorder graph, 1954\*

Day	Jan.	Feb.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	...	...	...	...	7.9	7.1	6.8	6.8
2	...	...	...	...	8.1	7.1	6.6	6.6
3	...	...	...	...	8.1	7.0	6.8	6.5
4	...	...	...	...	7.9	7.0	6.8	6.5
5	...	...	...	...	7.9	7.0	6.8	6.5
6	...	...	...	7.9	8.1	7.2	6.8	6.4
7	5.5	5.6	...	7.6	8.0	7.2	6.7	3.5
8	...	5.6	...	7.2	7.9	7.0	6.8	6.5
9	...	...	...	7.5	8.1	6.7	7.2	6.5
10	...	...	...	6.0	7.6	6.8	7.0	6.6
11	...	...	...	7.1	7.6	6.7	6.8	6.5
12	...	...	...	7.1	7.5	6.6	6.6	6.7
13	...	...	...	7.1	7.6	6.7	6.5	6.6
14	...	...	...	7.3	7.6	6.5	6.2	6.4
15	...	...	...	7.2	7.5	6.4	6.2	6.4
16	...	...	...	7.2	7.6	6.5	6.3	6.7
17	...	...	...	8.2	7.6	6.6	6.3	6.6
18	...	...	...	8.0	7.8	6.6	6.2	6.5
19	...	...	...	8.2	7.6	6.7	6.1	6.4
20	...	...	...	8.2	7.8	6.6	6.1	6.5
21	...	...	...	8.3	7.6	6.7	6.0	6.6
22	5.7	...	...	7.9	7.7	6.6	6.3	6.5
23	...	...	...	7.5	7.5	6.6	6.2	6.7
24	...	...	...	4.8	7.1	6.7	6.1	6.5
25	...	...	...	7.4	7.1	6.7	6.2	6.4
26	...	...	8.4	7.3	7.0	6.9	6.3	6.4
27	...	...	7.8	7.4	7.0	6.8	6.4	6.6
28	5.5	...	8.0	7.6	7.0	7.5	6.4	6.5
29	5.5	...	8.2	7.4	7.0	7.4	6.6	6.5
30	5.8	...	8.2	7.3	7.2	7.0	6.8	...
31	...	...	7.8	8.2	...	6.9	...	...

\* No record for March, April, May, and June.

Daily lowest water level from recorder graph, 1954\*

Day	Jan.	Feb.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.6	...	...	...	13.6	12.9	12.4	12.7
2	11.6	...	...	...	13.6	12.7	8.2	12.4
3	11.4	...	...	...	13.6	12.6	12.7	12.6
4	...	11.6	...	...	13.6	8.2	12.9	12.4
5	10.2	11.7	...	...	13.4	8.4	11.2	12.2
6	11.4	11.8	...	13.2	13.5	13.0	12.6	11.4
7	7.0	11.4	...	14.4	13.8	13.0	12.8	8.0
8	...	11.6	...	13.0	13.8	12.6	8.6	12.3
9	...	...	...	8.7	13.6	12.0	9.2	12.6
10	11.5	...	...	12.8	13.6	12.2	12.7	7.9
11	...	...	...	12.8	13.5	12.5	12.6	12.6
12	11.4	...	...	12.7	13.4	12.4	12.6	12.6
13	11.1	...	11.0	8.8	12.8	12.4	11.9	7.9
14	11.9	...	11.2	13.2	13.2	12.2	11.9	12.0
15	11.8	...	13.0	13.2	13.4	7.8	7.7	12.2
16	11.6	...	13.0	10.9	12.9	12.0	11.8	11.4
17	...	...	13.0	14.4	13.6	12.0	11.8	12.6
18	...	...	13.1	10.8	13.4	12.6	12.0	12.3
19	11.9	...	13.1	13.1	13.4	11.6	12.1	11.6
20	11.8	...	13.3	13.6	13.6	12.6	11.9	12.4

## 24--Continued.

Day	Jan.	Feb.	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	....	....	10.0	13.6	9.2	12.6	12.0	7.9
22	11.4	....	14.0	13.1	13.6	8.4	7.6	11.4
23	11.5	....	10.5	13.2	13.0	12.6	11.2	12.6
24	11.4	....	13.0	13.0	13.1	12.6	12.0	7.9
25	....	....	12.8	13.0	12.8	12.3	11.8	12.1
26	11.5	....	14.0	13.3	12.7	8.2	12.5	12.7
27	11.6	....	13.6	8.9	12.6	8.2	12.3	8.0
28	11.6	....	13.5	8.9	12.9	12.3	12.4	7.8
29	7.2	....	13.8	8.8	8.4	8.5	8.3	12.4
30	11.7	....	9.6	12.9	8.4	12.5	12.7	....
31	....	....	9.6	13.6	....	12.6	....	....

\* No record for March, April, May, and June.

25. City of Daytona Beach. Fairview Ave. and Beach St. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 225 feet, cased to 86. Land-surface datum is 7.71 feet above msl. Highest water level 3.37 above lsd, Oct. 9, 1953; lowest 3.56 below lsd, July 1952, June 1953, June, Aug., Sept. 1954. Records available: 1948-54.

## Daily mean water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+2.26	+1.49	+1.54	+0.90	+1.28	+0.95	-2.70	+0.47	....	-0.59	....	-0.60
2	2.37	1.70	.85	1.08	+1.48	.25	1.90	+4.40	....	+3.30	....	+5.60
3	1.95	1.80	.79	1.19	+5.52	.57	1.65	-.80	....	.50	....	1.30
4	2.10	1.65	1.02	1.40	-.25	1.17	1.10	1.45	-2.05	.20	....	1.62
5	2.10	1.59	.75	1.00	+7.73	1.60	.74	1.40	1.60	.15	+0.44	1.77
6	2.10	1.55	1.20	.50	1.18	1.77	.35	1.50	.52	+4.40	.50	1.94
7	1.15	.50	1.69	.25	1.08	1.46	.50	.87	1.19	-.36	.08	2.17
8	1.35	1.10	1.38	.70	.97	.99	-4.40	1.10	1.92	+4.80	.58	2.10
9	1.78	.62	1.72	.55	.20	.60	+1.16	1.60	2.00	1.04	....	1.78
10	2.20	.40	1.40	.95	.28	.20	.70	1.10	1.75	1.00	....	1.80
11	2.30	1.40	1.40	1.50	.38	.06	1.24	1.80	.70	1.20	....	1.87
12	1.20	1.45	1.25	.95	.66	+0.03	1.33	2.30	.82	1.04	....	1.83
13	1.33	1.60	1.00	.53	.97	-.60	1.08	2.70	1.50	.76	1.45	1.85
14	1.95	.70	.60	.69	.40	.33	.60	1.75	1.63	1.14	1.73	1.87
15	1.96	1.15	1.28	.45	1.04	.55	+1.10	.76	1.10	1.50	1.62	1.89
16	2.00	1.10	1.46	.38	1.29	.90	-.94	1.85	1.07	1.52	.97	1.75
17	2.25	1.04	1.40	.84	.97	.96	-.13	....	1.13	.79	.48	1.60
18	2.20	1.10	1.30	1.25	.42	-.50	+4.48	....	2.04	1.44	1.35	1.89
19	1.90	1.20	1.45	1.05	.26	+6.68	+1.10	....	1.11	1.55	1.60	2.04
20	2.00	1.30	1.90	1.13	.07	1.30	-.33	....	1.15	1.04	.82	1.06
21	1.95	1.55	1.30	1.77	-.08	1.28	1.40	....	1.80	1.45	.21	.71
22	1.89	1.00	1.76	1.98	+3.34	.90	1.03	2.38	1.75	1.28	1.58	.29
23	1.99	1.24	1.70	1.90	-.10	+3.37	1.37	1.95	1.25	1.18	1.80	.75
24	2.36	1.45	1.50	2.00	+0.05	.00	-.25	2.00	-1.01	1.00	1.90	.91
25	2.22	1.62	1.30	1.45	-.22	-.40	+7.70	1.70	+3.34	....	1.98	1.41
26	2.20	1.51	1.30	1.79	-.37	.43	-.32	1.73	+1.15	....	1.90	1.95
27	2.02	1.49	1.20	1.67	+2.22	1.50	.88	2.00	+5.50	....	1.85	1.96
28	1.80	1.77	.80	.70	.60	1.87	.60	2.10	-.22	....	+7.70	1.94
29	1.90	....	1.45	.05	.84	....	.63	1.85	.75	....	-.03	1.88
30	1.95	....	1.42	.30	1.53	....	-.25	....	.70	....	-.40	1.60
31	1.45	....	1.20	....	1.58	....	+3.32	....	....	....	....	1.48

27. City of Daytona Beach. Orange Ave. and South Caroline St. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 219 feet. Highest water level 4.50 above lsd, Dec. 26, 1953; lowest 3.71 below lsd, Aug. 20, 1954. Records available: 1948-54.

## Daily highest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+2.95	+3.76	+3.03	+2.64	+3.30	+3.39	....	....	....	....	....	+1.38
2	4.35	2.96	2.74	2.88	3.42	2.99	....	....	....	....	....	1.40
3	4.15	2.85	2.67	2.78	3.73	2.87	....	....	....	+2.47	....	1.84
4	4.31	2.93	2.54	3.39	2.96	3.45	+0.70	....	....	+2.47	+1.68	2.10
5	3.00	3.25	2.56	3.40	3.10	3.57	.87	....	....	....	1.35	2.38
6	3.31	2.75	2.30	2.58	3.30	3.40	1.90	....	....	....	1.50	....
7	2.85	2.85	3.51	2.12	3.28	3.43	1.98	+0.11	....	....	1.37	....
8	3.55	2.52	2.87	3.01	2.19	1.95	2.06	-.34	....	....	1.20	....
9	3.95	3.26	3.07	2.21	2.29	1.85	2.57	+5.55	....	....	1.00	....
10	4.05	2.35	2.94	3.02	2.94	1.85	2.70	-.64	....	....	.92	....

## 27--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	+4.38	+2.75	+2.73	+3.40	+1.72	+1.27	+3.02	+0.17	....	....	+1.78	....
12	3.81	2.20	2.42	3.30	2.56	.92	3.08	+.56	....	....	1.90	....
13	3.50	2.54	2.34	2.45	2.06	1.85	1.80	-.99	....	....	2.00	....
14	3.88	2.55	2.43	3.00	3.48	.89	1.67	1.25	....	....	2.05	....
15	3.29	2.38	2.73	2.41	3.12	.58	2.50	.78	....	....	2.24	....
16	2.84	2.18	2.58	2.35	3.29	.08	2.34	.65	....	....	2.18	....
17	4.02	2.22	2.58	2.90	3.14	.19	1.93	1.56	....	....	1.96	....
18	4.06	2.20	2.61	3.24	1.74	.85	2.30	1.91	+1.78	....	1.94	....
19	3.35	2.19	2.55	3.27	1.60	2.69	2.41	2.26	....	....	2.08	....
20	4.10	2.20	3.56	3.26	1.30	3.05	.71	2.40	....	....	....	....
21	2.75	2.42	3.01	3.52	2.46	3.26	.50	2.44	....	....	1.54	2.20
22	3.95	2.41	2.80	3.60	2.67	2.97	.04	-1.55	....	....	2.28	2.29
23	3.93	2.79	3.42	3.86	1.47	1.42	1.45	+.28	....	....	2.40	1.99
24	4.20	3.65	3.28	3.94	1.24	1.49	2.20	....	....	....	2.17	2.09
25	4.25	2.95	3.01	3.92	1.08	1.20	....	....	....	....	....	2.27
26	4.18	2.68	2.91	3.86	.90	.90	....	....	....	....	....	....
27	4.09	2.65	2.80	3.87	2.23	1.40	....	....	....	....	....	....
28	2.98	2.85	2.59	3.60	3.03	.40	....	....	....	....	....	....
29	3.90		2.95	3.41	3.05	....	....	....	....	....	2.05	2.42
30	3.95		3.24	3.50	3.42	....	....	....	....	....	1.44	2.17
31	2.90		3.00		3.54	....	....	....	....	....		2.17

## Daily lowest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+2.90	+1.80	+1.52	+0.99	+1.70	+0.86	....	....	....	....	....	-1.00
2	2.40	1.95	1.28	1.08	2.04	.51	....	....	....	....	....	-.33
3	2.20	2.00	1.25	1.58	.80	1.24	....	....	....	+0.30	....	+.50
4	2.35	1.99	1.34	1.74	.49	1.92	....	....	....	-.03	-0.74	.70
5	2.29	1.90	1.20	.78	1.20	1.96	....	....	....	....	.50	.83
6	2.12	1.72	1.55	.48	1.80	2.00	+0.29	....	....	....	.70	1.07
7	1.68	1.29	1.84	.45	1.74	1.76	.29	-1.15	....	....	.90	1.17
8	1.90	1.66	1.72	.79	1.66	1.50	.40	1.65	....	....	.58	1.17
9	2.12	1.50	1.90	.44	.58	1.06	.60	1.79	....	....	.77	1.14
10	2.60	1.27	1.40	1.05	.70	.81	1.17	1.67	....	....	.84	1.16
11	2.22	1.46	1.45	1.59	1.09	.60	1.29	2.28	....	....	-.14	1.09
12	1.58	1.65	1.38	.48	1.30	.70	1.59	2.45	....	....	+.16	1.18
13	1.79	1.70	1.50	1.15	1.82	.05	1.46	2.70	....	....	.30	1.10
14	2.10	1.16	1.14	1.10	.64	.29	....	2.10	....	....	.56	1.14
15	2.18	1.11	1.52	.90	1.55	....	.38	1.25	....	....	+.19	1.11
16	2.25	1.12	1.58	.91	1.94	....	....	2.67	....	....	-.20	1.03
17	2.65	1.30	1.48	1.12	.90	....	....	3.11	....	....	-.34	.78
18	2.20	1.28	1.50	1.44	1.11	....	.44	3.47	-0.40	....	+.10	1.06
19	2.09	1.32	1.80	.64	.80	.85	....	3.62	....	....	+.54	+1.33
20	2.12	1.48	2.32	1.14	.70	1.37	.05	3.71	....	....	-.17	-.20
21	2.08	1.98	1.41	1.90	.86	1.50	....	3.63	....	....	-.18	.11
22	2.12	1.33	2.08	1.98	.92	1.08	....	3.05	....	....	+.74	.40
23	2.18	1.05	2.07	2.00	.09	1.10	....	....	....	....	.85	.03
24	2.58	1.55	1.58	2.12	.10	.92	....	....	....	....	1.09	-.02
25	2.15	1.71	1.80	1.37	.08	.40	....	....	....	....	1.11	+.55
26	2.18	1.72	1.74	2.00	.05	.05	....	....	....	....	1.05	1.10
27	2.16	1.68	1.79	1.68	.10	....	....	....	....	....	+1.12	....
28	2.08	1.95	1.79	.63	.59	....	....	....	....	....	-.20	1.17
29	2.11		1.26	.54	1.11	....	....	....	....	....	.68	1.20
30	2.12		1.31	.75	1.80	....	....	....	....	....	.90	.60
31	1.75		1.03		1.75	....	....	....	....	....		.63

29. A. L. McKay. NE $\frac{1}{4}$  sec. 20, T. 15 S., R. 29 E. Barberville. Drilled artesian well in Floridan aquifer, diameter 6 inches, depth 107 feet. Land-surface datum is 40.5 feet above msl. Highest water level 9.47 below lsd, July 27, 1951; lowest 17.0 below lsd, Apr. 20, 1939. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	14.89	Apr. 29	15.85	Aug. 6	16.20	Oct. 27	15.92
Mar. 22	15.44	June 14	16.65	Sept. 18	16.52	Dec. 7	16.12

30. Herbert Cowart. NW $\frac{1}{4}$  sec. 16, T. 14 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 180 feet. Land-surface datum is 14.9 feet above msl. Highest water level 12.3 above lsd, Dec. 1941, Oct. 2, 1953; lowest 6.7 above lsd, May 1948. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	+10.1	Apr. 29	+10.3	Aug. 4	+10.1	Oct. 27	+10.34
Mar. 22	+10.6	June 11	+10.1	Sept. 16	+10.0	Dec. 7	+10.6

31. Florida State Road Dept. Alamana. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 11, T. 18 S., R. 32 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 113 feet. Land-surface datum is 35.9 feet above msl. Highest water level 3.80 below lsd, Sept. 1945; lowest 8.07 below lsd, Aug. 8, 1950. Records available: 1936-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.55	5.10	....	5.80	5.92	6.67	6.82	5.91	6.37	....	....	....
2	4.57	5.08	....	5.86	5.83	6.67	6.86	5.90	....	....	....	....
3	4.53	5.07	....	5.90	5.77	6.58	6.90	5.94	....	....	....	....
4	4.49	5.08	5.51	5.93	5.74	6.48	6.88	5.97	....	....	5.33	....
5	4.45	5.13	5.53	5.98	5.74	6.42	6.74	5.99	....	....	5.33	....
6	4.47	5.18	5.53	6.01	5.77	6.41	6.63	6.01	....	....	5.37	....
7	4.53	5.23	5.48	6.03	5.82	6.40	6.60	6.04	....	....	5.42	....
8	4.58	5.21	5.45	6.05	5.87	6.37	6.57	6.09	....	5.20	....	....
9	4.60	5.20	5.40	6.05	5.95	6.36	6.46	6.08	....	4.96	....	....
10	4.60	5.23	5.37	....	6.00	6.38	6.41	5.91	....	4.83	....	....
11	4.60	5.25	5.39	....	6.05	6.42	6.37	5.80	....	4.75	....	....
12	4.68	5.30	5.43	....	6.07	6.46	6.32	5.75	....	4.71	....	....
13	4.73	5.39	5.47	....	6.06	6.52	6.31	5.78	....	4.73	....	....
14	4.75	5.40	5.48	....	6.10	6.55	6.34	5.81	....	4.69	....	....
15	4.72	5.41	5.55	....	6.17	6.59	6.37	5.86	....	4.64	....	....
16	4.70	5.41	5.62	....	6.23	6.64	6.40	5.90	....	4.75	....	5.17
17	4.75	5.41	5.67	6.12	6.26	6.69	6.44	5.94	h6.43	4.83	....	5.18
18	4.81	5.43	5.65	6.18	6.30	6.72	6.49	6.01	....	4.86	....	5.11
19	4.84	5.46	5.63	6.22	6.34	6.68	6.54	6.07	....	4.89	....	5.08
20	4.85	5.47	5.54	6.25	6.36	6.63	6.58	6.13	....	4.91	....	5.08
21	4.85	5.42	5.51	6.23	6.42	6.63	6.63	6.17	....	....	....	....
22	4.85	5.40	5.54	6.18	6.48	6.65	6.68	6.23	....	....	....	....
23	4.90	....	5.56	6.16	6.52	6.68	6.69	6.22	....	....	....	....
24	4.95	....	5.57	6.17	6.56	6.70	6.65	6.20	....	....	....	....
25	4.98	....	5.60	6.20	6.62	6.70	6.59	6.21	....	....	....	....
26	4.98	....	5.62	6.22	6.65	6.66	6.56	6.22	....	....	....	....
27	4.99	....	5.65	6.20	6.63	6.64	6.50	6.27	....	....	....	....
28	5.00	....	5.67	6.19	6.62	6.65	6.27	6.31	....	5.18	....	....
29	5.02	....	5.70	6.17	6.65	6.68	6.07	6.30	....	....	....	....
30	5.06	....	5.73	6.05	6.66	6.75	5.98	6.29	....	....	....	....
31	5.07	....	5.77	....	6.67	....	5.94	6.33	....	....	....	h5.17

h Tape measurement.

32. Robert Nolan. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, T. 14 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 138 feet. Land-surface datum is 23.2 feet above msl. Highest water level 0.4 below lsd, Sept. 1947; lowest 3.42 below lsd, July 9, 1953. Records available: 1936-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 25	1.26	June 11	2.52	Sept. 16	3.07	Dec. 7	2.33
Mar. 22	1.91	Aug. 4	2.76	Oct. 27	2.28	14	2.21
Apr. 29	2.10						

### Wakulla County

2. O. P. Shields. St. Marks. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 103 feet, cased to 22. Highest water level 1.26 above lsd, Aug. 31, 1950; lowest 4.28 below lsd, Oct. 15, 1951. Records available: 1946-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.33	2.30	2.61	2.08	1.92	2.14	2.12	2.05	2.15	2.32	2.57	2.93
2	2.09	2.25	2.35	2.22	1.92	2.04	2.15	2.12	2.38	2.38	2.58	2.98
3	2.05	2.00	2.14	2.27	1.94	1.98	2.24	2.23	2.54	2.10	3.10	3.00
4	2.01	2.15	2.98	2.28	1.94	2.01	2.27	2.28	2.55	2.22	2.50	2.85
5	2.02	2.25	2.76	2.07	2.26	2.27	2.23	2.35	2.42	2.33	2.60	2.35
6	2.12	2.27	2.70	2.00	2.40	2.43	2.25	2.37	2.40	2.32	2.77	2.30
7	2.40	2.15	2.68	2.12	2.31	2.52	2.38	2.39	2.24	2.45	2.75	3.12
8	2.19	2.45	2.64	2.18	2.44	2.62	2.46	2.25	2.03	2.74	2.80	2.60
9	2.05	2.68	2.63	2.36	2.57	2.61	2.23	2.23	2.07	2.60	2.82	2.21
10	1.70	2.35	2.33	2.25	2.64	2.68	2.19	2.21	2.05	2.52	2.78	2.52
11	1.90	2.15	2.14	2.29	2.56	2.67	2.23	2.25	1.80	2.30	2.95	2.61
12	2.61	2.52	2.01	2.33	2.42	2.59	2.28	2.26	1.84	2.00	2.78	2.33
13	2.60	2.58	2.07	2.31	1.49	2.53	2.23	2.24	1.96	2.05	2.67	2.00
14	2.24	2.37	2.12	2.13	1.66	2.41	2.20	2.16	1.92	2.25	2.40	2.50
15	2.00	2.22	2.94	2.13	1.97	2.36	2.24	2.09	1.81	2.63	2.19	2.46

## 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	1.73	2.11	3.32	1.86	2.04	2.30	2.15	2.11	1.62	2.83	2.09	2.57
17	2.15	2.12	3.04	2.52	2.08	2.32	2.00	2.20	1.68	2.90	2.21	2.38
18	2.20	2.31	2.68	2.76	2.13	2.27	2.05	2.26	1.88	2.91	2.35	2.25
19	2.05	2.34	2.12	2.51	2.07	2.45	2.13	2.36	1.85	2.87	2.33	2.70
20	1.97	2.13	1.73	2.53	1.96	2.47	2.25	2.41	1.90	2.97	2.68	2.95
21	2.00	2.20	2.08	2.34	2.35	2.36	2.33	2.37	1.93	2.72	2.78	2.78
22	1.86	2.58	2.38	2.07	2.36	2.33	2.34	2.29	1.95	2.62	2.59	2.58
23	2.27	2.53	2.24	1.97	2.36	2.41	2.50	2.11	2.04	2.63	2.65	2.45
24	2.10	2.20	2.14	1.98	2.24	2.43	2.35	2.30	2.23	2.57	2.64	2.43
25	2.07	2.49	2.10	2.04	2.22	2.22	2.12	2.18	2.22	2.55	2.83	2.55
26	1.90	2.16	2.16	1.98	2.04	2.23	1.85	2.03	2.04	2.45	2.95	2.60
27	1.87	1.98	2.25	1.98	1.80	2.17	1.72	1.98	2.02	2.43	2.72	2.55
28	2.20	1.67		1.97	1.96	2.06	1.87	2.18	2.07	2.40	2.33	2.40
29	2.12		1.99	1.95	1.98	2.03	1.88	2.28	2.06	2.17	2.63	2.04
30	2.00		1.94	1.93	2.02	2.07	2.00	2.25	2.10	2.68	3.12	2.45
31	2.07		1.95		2.09		2.03	2.12		2.70		2.55

11. U. S. Dept. of Interior. Sec. 3, T. 5 S., R. 2 W. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 70 feet, cased to 45. Highest water level 5.17 below lsd, Sept. 7, 1951; lowest 9.00 below lsd, Mar. 7, 1949. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	7.53	Mar. 22	7.60	July 30	7.37	Oct. 21	6.61
Feb. 8	8.50	May 4	6.65	Sept. 10	6.04	Dec. 2	8.54

## Walton County

10. Town of Freeport. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 1 N., R. 19 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 183 feet, cased to 180. Land-surface datum is about 21.25 feet above msl. Highest water level 12.5 above lsd, July 30, 1947; lowest 5.38 above lsd, Oct. 20, 1954. Records available: 1947-54. Jan. 12, +7.30; Feb. 24, +6.00; July 7, +6.10; Sept. 9, +6.50; Oct. 20, +5.38; Dec. 1, +5.45.

13. O. H. Saltsman. Point Washington. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 1 S., R. 19 W. Drilled public-supply artesian well in Floridan aquifer, diameter 8 inches, reported depth 450 feet. Land-surface datum is about 10.56 feet above msl. Highest water level 20.8 above lsd, Sept. 3, 1947; lowest 12.2 above lsd, June 17, 1953. Records available: 1946-54.

Jan. 12	+14.6	May 18	+15.0	July 29	+14.3	Oct. 20	+14.1
Feb. 24	+15.0	July 7	+14.2	Sept. 9	+14.0	Dec. 1	+13.5
Apr. 6	+14.8						

14. Walton County. Point Washington. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 1 S., R. 19 W. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet. Land-surface datum is about 14.81 feet above msl. Highest water level 15.9 above lsd, July 12, 1949; lowest 9.0 above lsd, Nov. 19, 1946. Records available: 1946-54.

Jan. 12	+10.4	May 18	+11.0	July 29	+9.8	Oct. 20	+9.5
Feb. 24	+10.7	July 7	+10.2	Sept. 9	+10.2	Dec. 1	+9.2
Apr. 6	+10.3						

17. Citizens Oil Co. Freeport. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 1 N., R. 19 W. Drilled industrial artesian well in Floridan aquifer, diameter 8 inches, reported depth 187 feet. Land-surface datum is 2.70 feet above msl. Highest water level 35.0 above lsd, Sept. 3, 1947; lowest 27.0 above lsd, Oct. 20, 1954. Records available: 1947-54.

Jan. 12	+28.8	May 18	+29.0	July 29	+28.8	Oct. 20	+27.0
Feb. 24	+29.1	July 7	+28.6	Sept. 9	+29.5	Dec. 1	+27.3
Apr. 6	+29.1						

## Washington County

4. Town of Caryville. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, T. 4 N., R. 16 W. Drilled public-supply artesian well in Floridan aquifer, diameter 4 inches, reported depth 785 feet. Land-surface datum is about 58 feet above msl. Highest water level 7.80 below lsd, Apr. 17, 1947; lowest 17.98 below lsd, Nov. 23, 1952. Records available: 1946-54.

Jan. 15	11.37	May 21	15.09	July 26	15.05	Oct. 18	17.60
Feb. 27	13.29	July 11	14.63	Sept. 7	16.41	Nov. 29	17.58
Apr. 10	11.22						

## GEORGIA

By R. L. Wait and S. M. Herrick

### Scope of Water-Level Program

The observation-well program in Georgia, begun in 1938 in cooperation with the State Department of Mines, Mining and Geology, was continued in 1954. Measurements were made in 95 wells, 5 of which are equipped with recording gages. Figures 16, 17, and 18 show the location of observation wells.

### Precipitation

During 1954 Georgia suffered the worst drought on record. The annual total of 31.31 inches was more than 5 inches less than the previous low of 36.38 inches in 1931. Precipitation for the State as a whole was only 63 percent of normal, or 31.31 inches, as compared to the normal of 49.75. Above-normal precipitation occurred during September and November; rainfall in the other months ranged from 36 to 81 percent of normal. Only 45 to 70 percent of normal precipitation occurred in Brantley, Camden, Charlton, and Glynn Counties in the Coastal Plain, the area of greatest deficiency.

Percent of normal precipitation in 1954

Month	Percent	Month	Percent	Month	Percent
January	66	May	81	September	101
February	45	June	60	October	36
March	65	July	60	November	113
April	66	August	55	December	75

### Pumpage

The drought caused increased use of ground water for municipal, irrigation, and industrial purposes. In Savannah, metered pumpage increased 52 acre-feet per day, in Brunswick, 14 acre-feet per day, and in St. Marys, 0.47 acre-foot per day. The following table gives the average metered pumpage in acre-feet per day of only the major users of ground water from the principal artesian aquifer.

Daily average metered pumpage in acre-feet

	Savannah	Brunswick	St. Marys
1950	87.00	133.19	29.39
1951	82.90	151.56	41.66
1952	90.02	142.85	38.31
1953	98.11	168.13	38.31
1954	105.05	182.56	38.98

### Interpretation of Water-Level Fluctuations

**Piedmont.** --Water-table conditions prevail in northern Georgia; accordingly, water levels respond rapidly to local rainfall or the lack of it. Variation in local rainfall, topographic location of the well, type and thickness of residual cover, and the type and amount of fracturing of the bedrock control the rate and amount of fluctuation. Measurements ranged from 10.41 feet higher in Cobb 21 to 9.03 feet lower in Fulton 77.

**Coastal Plain.** --The Coastal Plain sediments consist of alternating sands, clays, and limestones, ranging in age from Cretaceous to Recent. Limestones of upper Eocene to Miocene age that underlie about three-fifths of this area form one hydrologic unit, known as the principal artesian aquifer. All observation wells in the Coastal Plain, except Chatham 343, end in this aquifer. Water levels in the Savannah area, which includes Chatham, Bryan, and Liberty Counties, were generally lower than in 1953. In Chatham County, new lows were recorded in all the wells measured in 1954. Year-end measurements ranged from 24.00 to 1.46 feet lower than in 1953. The greatest declines were observed in the industrial area northwest of the city of Savannah. In the observation wells in the Brunswick area in Glynn County, new record lows were reached in all wells. Water levels ranged from 1.58 to 3.42 feet lower than in December 1953. In Camden County, water levels were 3.06 to 11.94 feet lower than in December 1953.



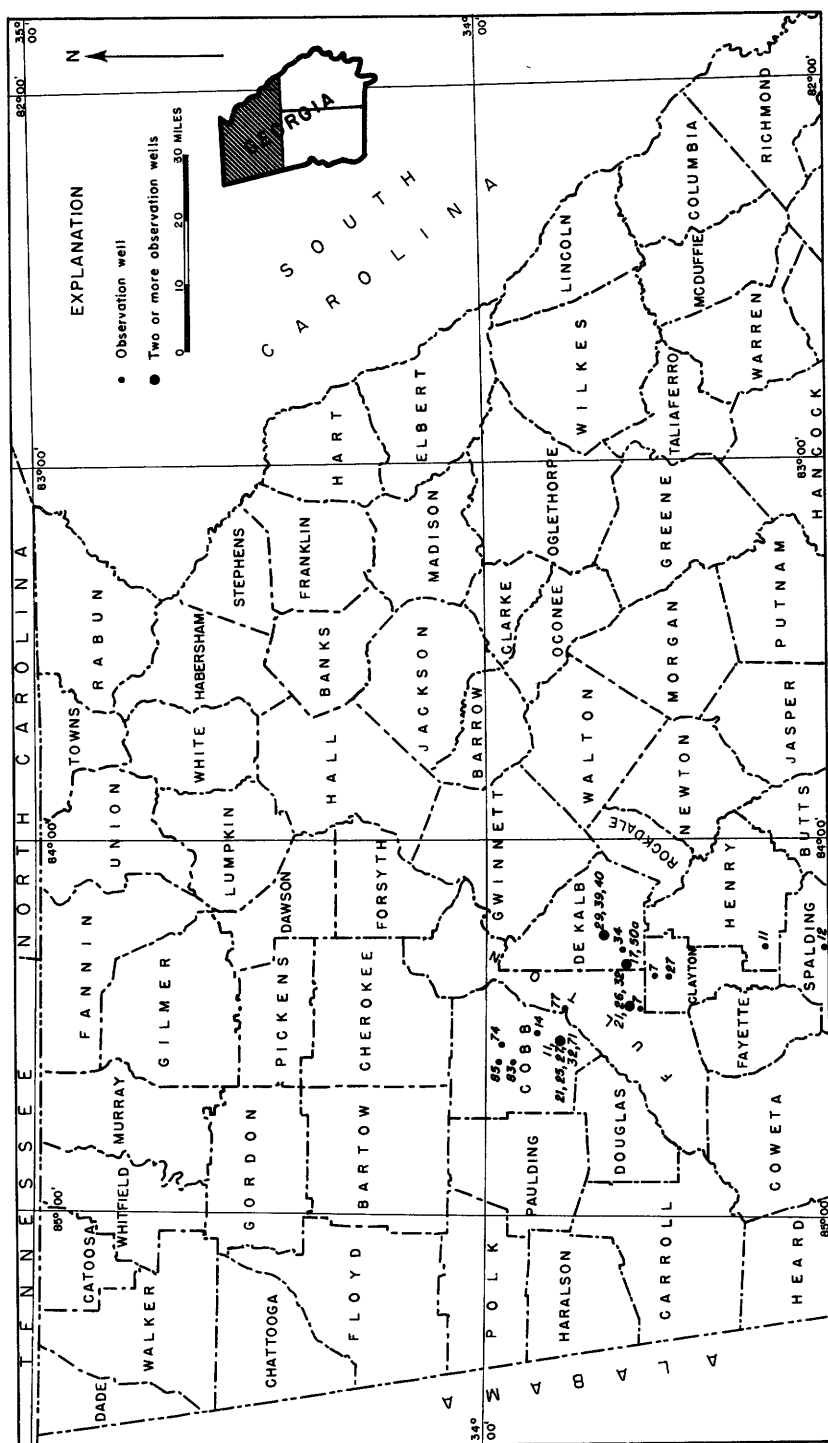


Figure 16. --Location of observation wells in northern Georgia, 1954.

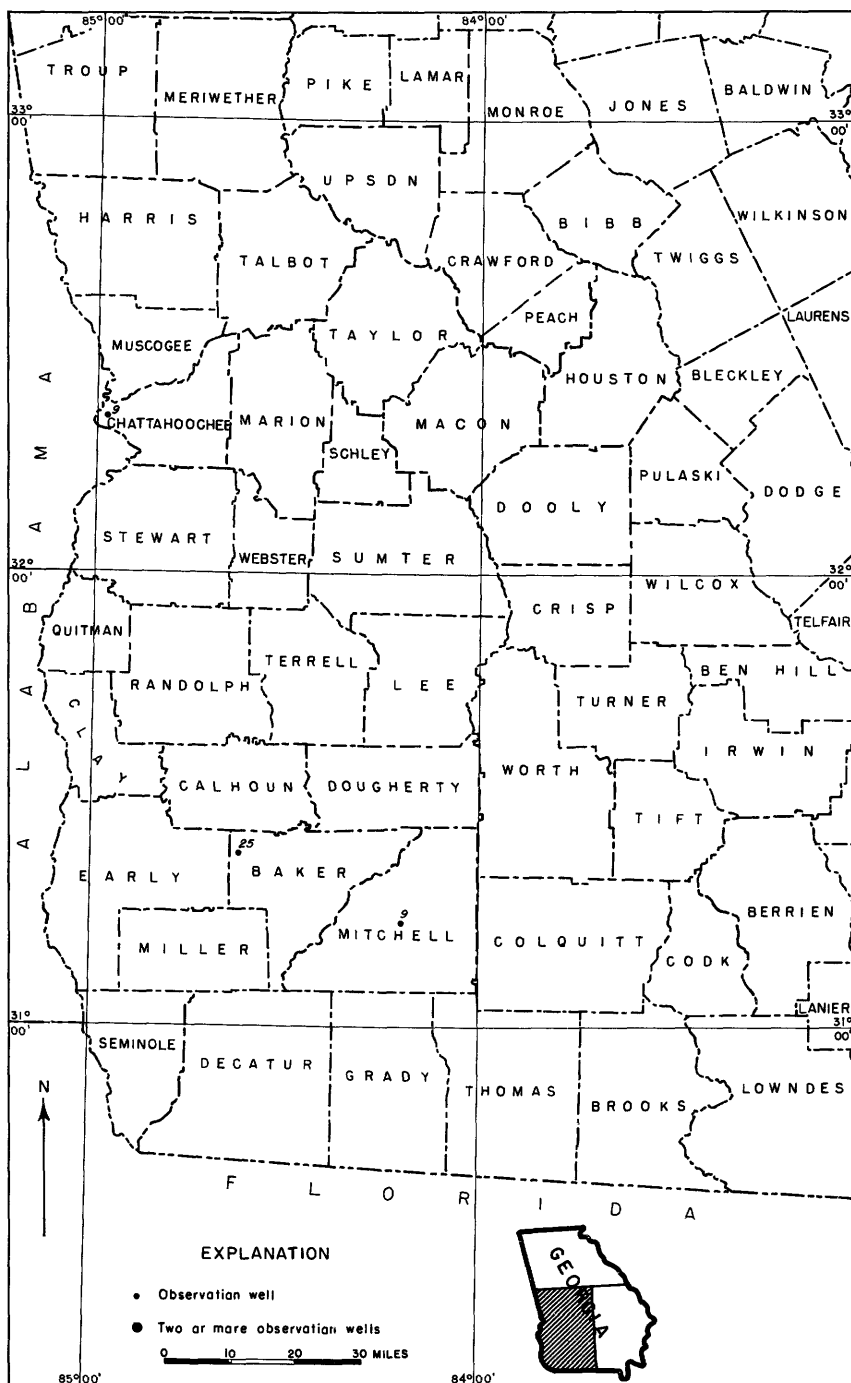


Figure 17. --Location of observation wells in southwestern Georgia, 1954.

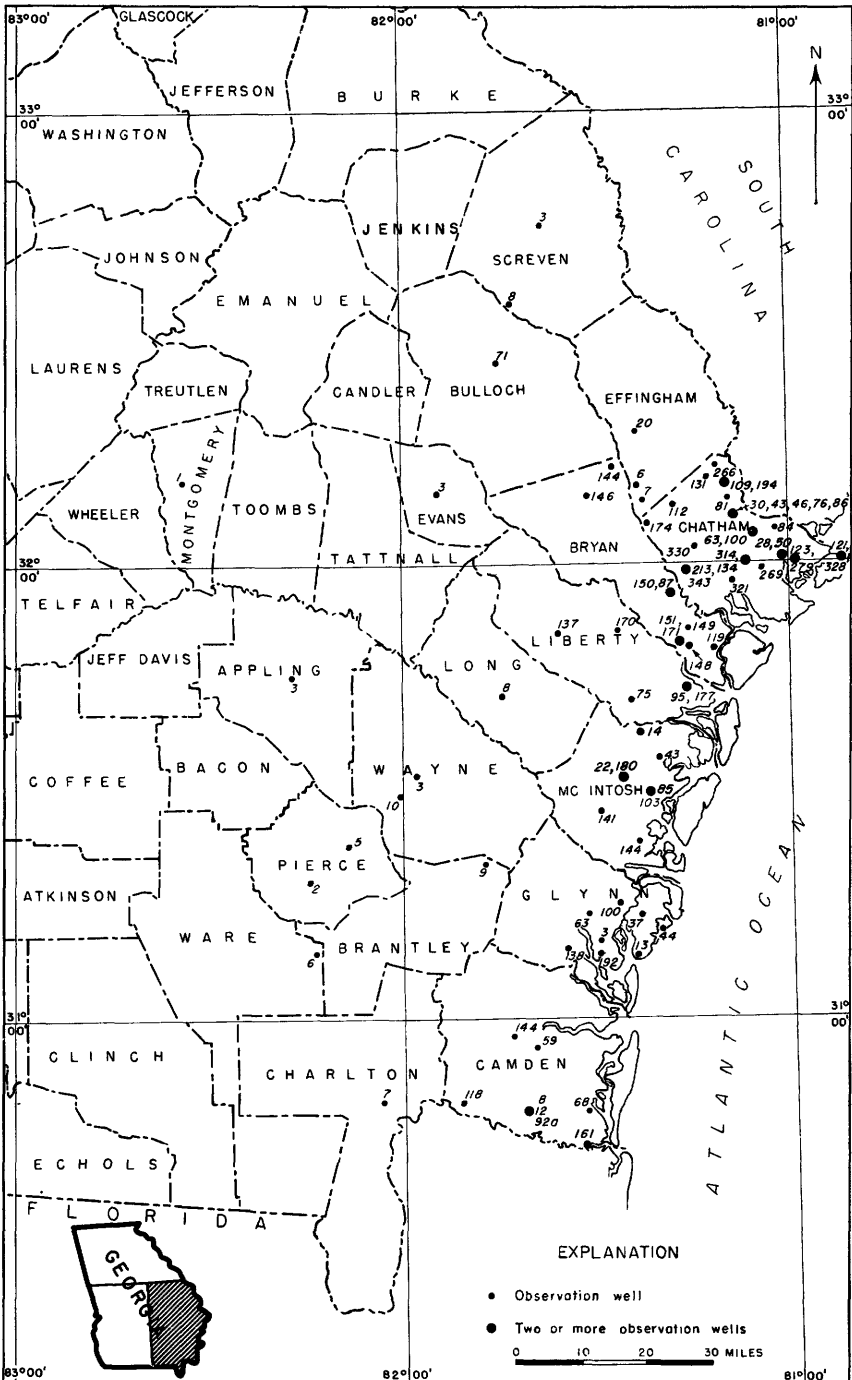


Figure 18. --Location of observation wells in southeastern Georgia, 1954.

## Acknowledgments

Measurements in Chatham County well 46 were furnished through courtesy of Union Bag & Paper Co. Measurements in Chatham County well 343 were made by the U. S. Department of Agriculture Plant Introduction Station.

## Well-Numbering System

Observation wells in Georgia are listed alphabetically by counties and numbered serially within each county.

## Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Appling County

3. Filtered Rosin Products Co. Near Baxley. Lat.  $31^{\circ}46'15''$ , long.  $82^{\circ}19'54''$ . Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 625 feet, cased to 525. Land-surface datum is 204 feet above msl. Highest water level 128.6 below lsd, Sept. 20, 1946; lowest 136.04 below lsd, Dec. 10, 1954. Records available: 1940-54. Dec. 10, 136.04.

Baker County

25. Emory University Field Station well 35. Patmos. Lat.  $31^{\circ}23'09''$ , long.  $84^{\circ}37'26''$ . Drilled unused water-table well in residuum, diameter 6 inches, depth 19 feet, cased to 2 with tile. Land-surface datum is 200 feet above msl. Highest water level 0.52 below lsd, Mar. 9, 1948; lowest 21.22 below lsd, Nov. 3, 1943. Records available 1940-53. Measurement discontinued.

Brantley County

9. U. S. Government. Lat.  $31^{\circ}14'51''$ , long.  $81^{\circ}47'26''$ . Drilled unused artesian well in Ocala limestone, diameter 8 to 6 inches, depth 705 feet, cased to 585. Land-surface datum is 60 feet above msl. Highest water level 1.04 below lsd, Dec. 8, 1947; lowest 10.79 below lsd, Nov. 30, 1954. Records available: 1941-43, 1945-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	5.86	Apr. 30	6.79	July 31	9.37	Oct. 31	10.49
Mar. 1	5.50	May 31	7.67	Aug. 30	9.81	Nov. 30	10.79
31	6.12	June 30	8.60	Sept. 30	10.12	Dec. 31	10.52

Bryan County

87. International Paper Co. Formerly Henry Ford. Richmond Hill. Lat.  $31^{\circ}56'44''$ , long.  $81^{\circ}19'37''$ . Drilled unused artesian well in Ocala limestone, diameter 4 inches, depth 580 feet, cased to 113. Land-surface datum is 23 feet above msl. Highest water level 4.53 above lsd, Oct. 31, 1939; lowest 5.80 below lsd, Dec. 14, 1954. Records available: 1939-54. Dec. 8, 5.61; Dec. 14, 5.80.

119. Henry Ford. Kilkenny. Lat.  $31^{\circ}47'20''$ , long.  $81^{\circ}12'16''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, Land-surface datum is 10 feet above msl. Highest water level 10.74 above lsd, May 12, 1939; lowest 1.27 above lsd, Dec. 8, 1954. Records available: 1939-47, 1949-54. Dec. 8, +1.27; Dec. 12, +2.50.

144. U. Butler. Eldora. Lat.  $32^{\circ}13'54''$ , long.  $81^{\circ}12'47''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet, cased to 80. Land-surface datum is 65.7 feet above msl. Highest water level 19.85 below lsd, Nov. 29, 1948; lowest 25.45 below lsd, Dec. 22, 1954. Records available: 1942-54. Apr. 5, 22.82; Aug. 18, 24.04; Sept. 2, 24.28; Oct. 21, 24.87; Nov. 18, 25.14; Dec. 22, 25.45.

146. Mill Creek School. Formerly L. W. Smith. Lat.  $32^{\circ}09'04''$ , long.  $81^{\circ}30'33''$ . Drilled domestic artesian well in Ocala limestone, diameter 6 inches, depth 423 feet, cased to 318. Land-surface datum is 66.50 feet above msl. Highest water level 19.53 below lsd, Mar. 6, 1941; lowest 26.77 below lsd, Nov. 18, 1954. Records available: 1941-54. Apr. 8, 23.08; Sept. 2, 26.17; Oct. 21, 26.53; Nov. 18, 26.77.

148. International Paper Co. Formerly Henry Ford. Keller. Lat.  $31^{\circ}50'35''$ , long.  $81^{\circ}15'14''$ . Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 440 feet, cased to 152. Land-surface datum is 17 feet above msl. Highest water level 7.40 above lsd, Mar. 25, 1941; lowest 0.38 above lsd, Dec. 15, 1954. Records available: 1940-54. Dec. 15, +0.38.

149. International Paper Co. Formerly Henry Ford. Lat.  $31^{\circ}51'40''$ , long.  $81^{\circ}16'57''$ . Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 160. Land-surface datum is 10 feet above msl. Highest water level 5.65 above lsd, Dec. 17, 1940; lowest 1.54 below lsd, Dec. 12, 1954. Records available: 1940-47, 1949-54. Dec. 12, 1.54.

150. Mrs. E. M. Berry. Formerly Henry Ford. Richmond Hill. Lat.  $31^{\circ}57'32''$ , long.  $81^{\circ}19'3''$ . Drilled domestic artesian well in Ocala limestone, diameter 4 to 3 inches, depth 480 feet, cased to about 400. Highest water level 12.57 above lsd, Dec. 17, 1940; lowest 4.35 above lsd, Dec. 14, 1954. Records available: 1940-54. Dec. 8, +6.35; Dec. 14, +4.35.

151. Henry Ford. Lat.  $31^{\circ}50'19''$ , long.  $81^{\circ}16'18''$ . Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 160. Land-surface datum is 18 feet above msl. Highest water level 8.3 above lsd, Mar. 25, 1941; lowest 1.04 above lsd, Dec. 8, 1954. Records available: 1941-54. Dec. 8, +1.04.

171. Deal & Purvis. Belfast. Lat.  $31^{\circ}49'18''$ , long.  $81^{\circ}17'22''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 600 feet, cased to 120. Land-surface datum is 17 feet above msl. Highest water level 8.03 above lsd, Mar. 5, 1947; lowest 2.40 above lsd, Dec. 8, 1954. Records available: 1942-54. Dec. 8, +2.40; Dec. 15, +2.42.

Bulloch County

71. Wirgate Faceville. Lat.  $32^{\circ}27'20''$ , long.  $81^{\circ}45'48''$ . Drilled unused artesian well in Ocala limestone, diameter 8 inches, depth 390 feet. Land-surface datum is 187 feet above msl. Highest water level 67.7 below lsd, Feb. 1, 1949; lowest 74.20 below lsd, Dec. 31, 1954. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 27	72.30	May 31	71.90	Sept. 1	73.30	Nov. 30	72.30
Apr. 1	72.30	June 30	72.30	30	72.30	Dec. 31	74.20
May 1	71.50	July 31	73.30	Oct. 30	72.30		

Camden County

8. M. L. Hill. Kingsland. Lat.  $30^{\circ}47'51''$ , long.  $81^{\circ}41'08''$ . Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 486 feet, cased to 300. Highest water level 26.0 above lsd, June 23, 1939; lowest 14.82 above lsd, Dec. 10, 1954. Records available: 1938-54. Dec. 10, +14.82.

12. J. J. Godley. Kingsland. Lat.  $30^{\circ}48'00''$ , long.  $81^{\circ}41'26''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches. Land-surface datum is 35.4 feet above msl. Highest water level 25.48 above lsd, Dec. 7, 1947; lowest 15.53 above lsd, Dec. 10, 1954. Records available: 1938, 1940-54. Dec. 10, +15.53.

59. Zack Colson. Lat.  $30^{\circ}56'34''$ , long.  $81^{\circ}40'17''$ . Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth about 400 feet. Land-surface datum is 24 feet above msl. Highest water level 32.7 above lsd, June 22, 1939; lowest 23.82 above lsd, Dec. 10, 1954. Records available: 1939-46, 1949-54. Dec. 10, +23.82.

68. King's Bay Club. Lat.  $30^{\circ}47'53''$ , long.  $81^{\circ}31'03''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 525 feet, cased to 320. Land-surface datum is 11 feet above msl. Highest water level 49.27 above lsd, June 23, 1939; lowest 33.06 above lsd, Dec. 10, 1954. Records available: 1939-47, 1949-54. Dec. 10, +33.06.

92a. Camden Race Track. Lat.  $30^{\circ}47'26''$ , long.  $81^{\circ}39'29''$ . Drilled unused artesian well in Ocala limestone, diameter 2 inches, depth about 500 feet, cased to 200. Land-surface datum is 26 feet above msl. Highest water level 34.95 above lsd, Sept. 19, 1939; lowest 28.41 above lsd, Dec. 8, 1952. Records available: 1939-52. No measurement made in 1954.

118. Oscar Silcox. Lat.  $30^{\circ}47'46''$ , long.  $81^{\circ}49'19''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 600 feet. Land-surface datum is 20 feet above msl. Highest water level 40.87 above lsd, Dec. 7, 1947; lowest 31.90 above lsd, Dec. 10, 1954. Records available: 1939, 1941-54. Dec. 10, +31.90.

144. C. F. Rawl. Woodbine. Lat.  $30^{\circ}57'26''$ , long.  $81^{\circ}43'19''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 410 feet, cased to about 300. Land-surface datum is 12 feet above msl. Highest water level 40.1 above lsd, Dec. 8, 1939; lowest 29.95 above lsd, May 21, 1953. Records available: 1939-43, 1945-53. Measurement discontinued.

161. Edward Floyd. Lat.  $30^{\circ}43'44''$ , long.  $81^{\circ}32'44''$ . Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 600 feet, cased to 400. Land-surface datum is 10 feet above msl. Highest water level 19.10 above lsd, July 17, 1952; lowest 6.18 above lsd, Dec. 10, 1954. Records available: 1952-54. July 17, 1952, +19.10; Dec. 8, +14.05; May 21, 1953, +16.58; Dec. 5, +18.12; Dec. 10, 1954, +6.18.

Charlton County

7. State of Georgia. Lat. 30°48'51", long. 82°00'51". Drilled domestic artesian well in Ocala limestone, diameter 4 to 3 inches, depth 554 feet, cased to 517. Land-surface datum is 74.95 feet above msl. Highest water level 12.04 below lsd, Mar. 12, 1942; lowest 22.35 below lsd, Dec. 10, 1954. Records available: 1941-43, 1945-54. Dec. 10, 22.35.

Chatham County

28. Reliance Fertilizer Co. Lat. 32°05'02", long. 81°07'53". Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 480 feet, cased to 160. Land-surface datum is 16.37 feet above msl. Highest water level 33.25 below lsd, Oct. 11, 1939; lowest 87.43 below lsd, Oct. 19, 1954. Records available: 1932, 1937-42, 1952-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	77.55	Aug. 20	84.69	Sept. 20	78.61	Nov. 5	86.50
Apr. 7	75.22	Sept. 3	86.08	Oct. 19	87.43	Dec. 21	86.21

30. Dixie Asphalt Corp. Lat. 32°06'53", long. 81°07'58". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 608 feet, cased to 234. Land-surface datum is 11.33 feet above msl. Highest water level 24.81 below lsd, Oct. 11, 1939; lowest 83.87 below lsd, Nov. 17, 1954. Records available: 1938-54. Jan. 13, 74.47; Apr. 7, 74.99; Oct. 19, 81.03, pumping; Nov. 17, 83.87; Dec. 21, 80.70.

43. Southern Cotton Oil Co. Lat. 32°05'32", long. 81°06'42". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 1,000 feet, cased to 255. Land-surface datum is 8.84 feet above msl. Highest water level 56.92 below lsd, Nov. 30, 1940; lowest 95.95 below lsd, Aug. 15, 1951. Records available: 1940-53. Measurement discontinued.

46. Union Bag & Paper Corp. Lat. 32°06'12", long. 81°07'20". Drilled industrial artesian well in Ocala limestone, diameter 20 inches, depth 1,010 feet, cased to 220. Land-surface datum is 10.1 feet above msl. Highest water level 28.98 below lsd, Jan. 20, 1939; lowest 176 below lsd, Nov. 19, 1954. Records available: 1939-41, 1943-54.

Jan. 19	146	Apr. 19	150	July 28	168	Oct. 22	176
Feb. 10	148	May 10	150	Aug. 11	172	Nov. 19	176
Mar. 17	150	June 23	154	Sept. 16	166	Dec. 21	175

50. Hercules Powder Co. Savannah. Lat. 32°05'18", long. 81°09'05". Drilled unused industrial artesian well in Ocala limestone, diameter 4 inches, depth 420 feet, cased to 80. Land-surface datum is 13.83 feet above msl. Highest water level 23.74 below lsd, Jan. 20, 1939; lowest 71.11 below lsd, Aug. 20, 1954. Records available: 1939, 1952-54.

Jan. 14	d62.78	Aug. 20	c71.11	Sept. 20	d56.29	Nov. 23	d62.13
Apr. 7	d68.92	Sept. 3	d62.23	Oct. 19	d61.70	Dec. 21	d64.10

c. Nearby well being pumped.

d. Nearby well pumped recently.

63. Colonial Ice Co. McGuire and Indian Sts., Savannah. Lat. 32°05'07", long. 81°05'49". Drilled unused artesian well in Ocala limestone, diameter 12 inches, depth 525 feet, cased to 120. Land-surface datum is 19.30 feet above msl. Highest water level 46.52 below lsd, Oct. 18, 1939; lowest 90.55 below lsd, Aug. 19, 1954. Records available: 1939-54. Jan. 13, 81.29; Apr. 7, 8.60; Aug. 19, 90.55; Sept. 2, 84.65; Oct. 19, 89.17; Nov. 17, 88.10; Dec. 21, 87.23.

76. Pierpont Manufacturing Co. Lathrop Ave., Savannah. Lat. 32°05'50", long. 81°07'00". Drilled industrial artesian well in Ocala limestone, diameter 3 inches, depth 378 feet, cased to about 150. Land-surface datum is 12.1 feet above msl. Highest water level 53.26 below lsd, May 8, 1939; lowest 111.10 below lsd, Aug. 18, 1954. Records available: 1939-54.

Jan. 12	98.38	Aug. 18	111.10	Sept. 21	104.70	Nov. 17	109.36
Apr. 7	98.98	Sept. 2	108.37	Oct. 19	110.44	Dec. 21	109.06

81. Gordon Saussy. Lat. 32°08'24", long. 81°08'42". Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 522 feet, cased to 60. Land-surface datum is 15.1 feet above msl. Highest water level 36.12 below lsd, Mar. 19, 1942; lowest 62.26 below lsd, Aug. 18, 1954. Records available: 1940-54.

Jan. 13	53.20	Aug. 18	62.26	Sept. 21	57.82	Nov. 17	62.20
Apr. 7	54.55	Sept. 2	62.17	Oct. 19	61.33	Dec. 21	62.21

84. Standard Oil Co. Lat. 32°04'37", long. 81°02'31". Drilled industrial artesian well in Ocala limestone, diameter 10 inches, depth 652 feet, cased to 230. Land-surface datum is 5.5 feet above msl. Highest water level 20.75 below lsd, Jan. 4, 1941; lowest 45.98 below lsd, Sept. 21, 1954. Records available: 1940-54.

Jan. 12	36.60	Sept. 3	43.87	Oct. 20	42.56	Nov. 19	42.27
Apr. 7	36.04	21	45.98	Nov. 19	43.25	Dec. 22	41.38
Aug. 19	44.23						

86. Southern Cotton Oil Co. Lathrop Ave., Savannah. Lat. 32°05'32", long. 81°06'42". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 665 feet, cased to 240. Land-surface datum is 9.2 feet above msl. Highest water level 57.25 below lsd, Nov. 30, 1940; lowest 102.95 below lsd, Sept. 30, 1952. Records available: 1940-47, 1949-53. Measurement discontinued.

100. Producers Cooperative Association. Savannah. Lat. 32°04'22", long. 81°04'20". Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 310 feet. Land-surface datum is 7 feet above msl. Highest water level 32.36 below lsd, Dec. 5, 1951; lowest 44.92 below lsd, Aug. 24, 1945. Records available: 1943-53. Measurement discontinued.

109. State Highway Department. Lat. 32°09'40", long. 81°09'24". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 258 feet. Land-surface datum is 7.86 feet above msl. Highest water level 3.43 above lsd, Jan. 21, 1939; lowest 25.51 below lsd, Apr. 7, 1954. Records available: 1938-52, 1954. Jan. 13, 24.23; Apr. 7, 25.51.

112. Philip Wise. Bloomingdale. Lat. 32°07'40", long. 81°17'48". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 360 feet. Land-surface datum is 24.00 feet above msl. Highest water level 5.63 above lsd, Mar. 3, 1939; lowest 6.86 below lsd, Apr. 5, 1954. Records available: 1938-41, 1945-54. Apr. 5, 6.86.

121. Robert Schneider. Lat. 32°01'12", long. 80°51'23". Drilled domestic artesian well in Hawthorn formation, diameter 2 inches, depth 174 feet, cased to about 85. Land-surface datum is 5.8 feet above msl. Highest water level 1.37 below lsd, Sept. 23, 1939; lowest 11.62 below lsd, Aug. 19, 1954. Records available: 1939-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	9.15	Aug. 19	11.62	Sept. 21	9.59	Nov. 19	8.74
Apr. 6	9.42	Sept. 3	9.60	Oct. 20	9.90	Dec. 23	10.34

123. Henry Walthour Estate. Wilmington Island. Lat. 32°00'34", long. 80°51'11". Drilled unused artesian well in Ocala limestone, diameter 3 inches, depth 235 feet, cased to 100. Land-surface datum is 4.7 feet above msl. Highest water level 4.06 below lsd, Oct. 12, 1939; lowest 16.13 below lsd, Dec. 23, 1954. Records available: 1938-54.

Jan. 15	13.22	Aug. 19	17.00	Sept. 21	16.42	Nov. 17	17.48
Apr. 6	13.09	Sept. 7	17.30	Oct. 20	17.80	Dec. 23	16.13

131. C. E. Oliver. Lat. 32°11'19", long. 81°11'33". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 300 feet, cased to 40. Land-surface datum is 12.8 feet above msl. Highest 1.28 below lsd, Oct. 26, 1939; lowest 19.48 below lsd, Dec. 22, 1954. Records available: 1938-54.

Jan. 13	13.85	Aug. 18	18.54	Sept. 21	17.98	Nov. 18	19.40
Apr. 7	15.05	Sept. 2	19.10	Oct. 21	19.00	Dec. 22	19.48

134. Mrs. Americus Oglesby. Formerly J. C. Sheffield. Lat. 31°59'27", long. 81°06'25". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 300 feet. Land-surface datum is 20.37 feet above msl. Highest water level 20.39 below lsd, Nov. 25, 1938; lowest 41.86 below lsd, Sept. 3, 1954. Records available: 1938, 1942-54.

Jan. 15	34.70	Aug. 19	41.53	Sept. 22	39.70	Nov. 20	40.68
Apr. 6	34.37	Sept. 3	41.86	Oct. 20	40.91	Dec. 23	40.72

174. H. C. Connor. Lat. 32°05'06", long. 81°21'34". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 340 feet, cased to 102. Land-surface datum is 21.4 feet above msl. Highest water level 6.3 above lsd, Dec. 1, 1938; lowest 2.85 above lsd, July 15, 1952. Records available: 1938, 1940-52. No measurement made in 1954.

194. Mrs. W. W. Keller, Sr. Drakes Point. Lat. 32°10'34", long. 81°07'20". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 350 feet, cased to 60. Land-surface datum is 12.3 feet above msl. Highest water level 9.91 below lsd, Oct. 18, 1939; lowest 33.70 below lsd, Nov. 18, 1954. Records available: 1938-54.

Jan. 13	26.64	Aug. 18	32.42	Sept. 21	31.25	Nov. 18	33.70
Apr. 6	27.90	Sept. 2	30.20	Oct. 21	33.37	Dec. 22	33.37

212. J.L. Budreau. Burroughs Rd. and U. S. Highway 17. Lat. 31°59'38", long. 81°15'14". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 420 feet, cased to 120. Land-surface datum is 15.55 feet above msl. Highest water level 2.46 above lsd, Nov. 27, 1940; lowest 7.58 below lsd, Dec. 24, 1954. Records available: 1939-54.

Jan. 15	3.63	Aug. 19	6.95	Sept. 22	6.90	Nov. 20	7.40
Apr. 6	3.86	Sept. 3	7.23	Oct. 20	7.23	Dec. 24	7.58

266. J. H. Chisholm. Lat. 32°13'42", long. 81°10'24". Drilled domestic artesian well in Ocala limestone, diameter 3 to 2 inches, depth about 300 feet. Land-surface datum is 13.3 feet above msl. Highest water level 0.80 above lsd, May 4, 1939; lowest 15.56 below lsd, Dec. 22, 1954. Records available: 1939-54. Apr. 7, 11.08, pumped recently; Aug. 18, 14.32; Sept. 2, 14.80; Sept. 21, 14.44; Oct. 21, 14.99; Nov. 18, 15.43; Dec. 22, 15.56.

269. J. M. Barnett. Formerly W. J. Pierpont Estate. Isle of Hope. Lat.  $31^{\circ}58'48''$ , long.  $81^{\circ}02'02''$ . Drilled domestic artesian well in Ocala limestone, diameter 8 inches, depth 521 feet, cased to 160. Land-surface datum is 9.8 feet above msl. Highest water level 9.51 below lsd, May 8, 1939; lowest 25.50 below lsd, Aug. 19, 1954. Records available: 1939-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	20.45	Aug. 19	25.50	Sept. 22	25.18	Nov. 20	25.25
Apr. 6	a22.27	Sept. 3	22.34	Oct. 20	24.60	Dec. 23	25.10
6	b21.27						

a Pumping.

b Pumped recently.

279. J. B. Pound Hotel Corp. General Oglethorpe Hotel. Wilmington Island. Lat.  $32^{\circ}00'15''$ , long.  $80^{\circ}58'14''$ . Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 480 feet, cased to 160. Land-surface datum is 15.1 feet above msl. Highest water level 15.89 below lsd, Jan. 18, 1941; lowest 31.06 below lsd, Aug. 19, 1954. Records available: 1939-54.

Jan. 15	25.68	Sept. 3	26.71	Oct. 20	29.44	Nov. 19	29.03
Apr. 6	26.21	21	30.72	Nov. 19	c29.67	Dec. 20	28.60
Aug. 19	31.06						

c Nearby well being pumped.

314. J. M. Breckenridge. Lat.  $32^{\circ}00'12''$ , long.  $81^{\circ}06'41''$ . Drilled unused artesian well in Ocala limestone, diameter 10 inches, depth 601 feet, cased to 255. Land-surface datum is 20.5 feet above msl. Highest water level 23.0 below lsd, Jan. 29, 1940; lowest 44.51 below lsd, Sept. 3, 1954. Records available: 1940-54. Jan. 15, 36.98; Apr. 6, 36.86; Aug. 19, 43.90; Sept. 3, 44.51; Oct. 20, 43.35; Nov. 20, 43.00.

321. R. C. Hinley. Lat.  $31^{\circ}57'55''$ , long.  $81^{\circ}06'52''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 365 feet, cased to 60. Land-surface datum is 14.54 feet above msl. Highest water level 8.47 below lsd, Mar. 7, 1941; lowest 21.06 below lsd, Sept. 3, 1954. Records available: 1940-54.

Jan. 15	16.23	Aug. 19	20.03	Sept. 22	20.34	Nov. 20	20.80
Apr. 6	16.59	Sept. 3	21.06	Oct. 20	20.40	Dec. 23	21.05

328. U. S. Dept. of the Army. Fort Screven, Tybee Island. Lat.  $32^{\circ}01'25''$ , long.  $80^{\circ}50'33''$ . Drilled unused artesian well in Hawthorn formation, diameter 3 inches, depth 139 feet. Land-surface datum is 9.85 feet above msl. Highest water level 6.30 below lsd, Dec. 13, 1940; lowest 15.50 below lsd, Aug. 19, 1954. Records available: 1940-54.

Jan. 15	11.95	Aug. 19	15.50	Sept. 21	13.44	Nov. 19	12.26
Apr. 6	13.55	Sept. 3	13.99	Oct. 20	13.15	Dec. 23	13.74

330. State Highway Department. Lat.  $32^{\circ}01'18''$ , long.  $81^{\circ}12'17''$ . Drilled unused artesian well in Ocala limestone, diameter 3 to 2 inches, depth 540 feet, cased to 400. Land-surface datum is 10.02 feet above msl. Highest water level 1.81 below lsd, Aug. 11, 1941; lowest 10.11 below lsd, Dec. 24, 1954. Records available: 1941-47, 1949-54.

Apr. 6	5.52	Sept. 2	9.99	Oct. 20	9.82	Dec. 14	9.99
Aug. 14	9.53	22	9.23	Nov. 20	9.93	24	10.11

343. U. S. Dept. of Agriculture. Barbour Lathrop Plant Introduction Station. Lat.  $31^{\circ}59'35''$ , long.  $81^{\circ}15'44''$ . Drilled observation water-table well in sediments of Pleistocene and Recent age, diameter 6 inches, depth 15 feet, cased to 15 with tile. Land-surface datum is 18.67 feet above msl. Highest water level 0.05 below lsd, Sept. 26, 1953; lowest 10.90 below lsd, Sept. 13-15, 1954. Records available: 1942-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.30	4.65	5.23	6.38	7.86	7.66	9.30	10.18	10.34	7.88	9.32	10.16
2	3.37	4.70	5.29	6.45	7.88	7.71	9.33	10.20	10.40	7.93	9.27	10.15
3	3.42	4.72	5.29	6.46	7.91	7.81	9.36	10.22	10.39	8.02	9.38	10.18
4	3.44	4.78	5.39	6.51	7.96	7.89	9.39	10.24	10.38	8.05	9.40	10.20
5	3.49	4.83	5.44	6.61	8.01	8.01	9.41	10.27	10.39	8.11	9.43	10.20
6	3.56	4.88	5.48	6.62	8.08	8.09	9.44	10.28	10.54	8.17	9.47	10.20
7	3.66	4.94	5.51	6.66	8.13	8.15	9.48	10.30	10.55	8.38	9.53	10.26
8	3.74	4.95	5.55	6.70	8.18	8.20	9.51	10.32	10.56	8.36	9.59	.....
9	3.80	4.95	5.57	6.78	8.25	8.29	9.55	10.35	10.57	8.33	9.61	.....
10	3.84	4.98	5.61	6.80	8.32	8.31	9.57	10.37	10.58	8.36	9.66	.....
11	3.85	5.00	5.65	6.82	8.36	8.42	9.60	10.39	10.58	8.44	9.68	.....
12	3.90	5.09	5.70	6.86	8.40	8.51	9.63	10.41	10.60	8.51	9.70	.....
13	3.97	5.11	5.73	6.92	8.37	8.56	9.66	10.43	10.90	8.57	9.72	9.85
14	4.00	5.12	5.76	6.94	7.45	8.60	9.70	10.45	10.90	8.57	9.74	9.61
15	4.02	5.17	.....	6.98	7.13	8.63	9.73	10.47	10.90	8.51	9.83	9.34



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Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	4.05	5.90	5.89	7.00	6.88	8.69	9.76	10.48	10.88	8.68	9.90	9.16
17	4.13	5.22	5.93	7.07	6.83	8.71	9.80	10.48	10.74	8.74	9.94	8.90
18	4.18	5.28	5.95	7.14	6.73	8.80	9.82	10.50	8.67	....	9.97	8.79
19	4.21	5.31	5.96	7.20	6.72	8.79	9.86	10.51	8.07	....	9.97	8.67
20	4.24	5.33	5.97	7.25	6.73	8.83	9.89	10.53	....	....	10.00	8.51
21	4.28	5.36	6.11	7.28	6.86	8.87	9.91	10.55	7.63	8.87	10.50	....
22	4.30	5.43	....	7.33	6.93	8.90	9.93	10.57	7.54	8.93	....	8.40
23	4.35	5.46	6.12	7.38	7.02	8.95	9.96	10.59	....	9.01	....	8.38
24	4.36	5.46	6.17	7.44	7.06	8.98	9.98	10.61	7.51	9.02	....	8.37
25	4.40	5.45	6.20	7.49	7.15	9.50	10.01	10.63	7.50	....	....	8.42
26	4.43	5.27	6.24	7.55	7.26	9.52	10.03	10.65	7.51	9.07	....	....
27	4.44	5.24	6.27	7.57	7.32	9.10	10.05	10.66	7.53	9.07	....	8.38
28	4.49	5.19	6.29	7.62	7.34	9.05	10.08	10.68	7.62	9.08	....	8.32
29	4.53	....	....	7.72	7.44	9.19	10.11	10.70	7.73	9.10	10.15	8.30
30	4.56	....	6.28	7.82	7.54	9.25	10.14	10.27	7.84	9.21	10.18	8.37
31	4.62	....	6.34	....	7.63	....	10.16	10.29	....	9.27	....	8.35

## Chattahoochee County

9. U. S. Dept. of the Army. Fort Benning. Lat. 32°20'36", long. 84°59'03". Drilled unused artesian well in Blufftown and Eataw formations and Tuscaloosa group, diameter 12 inches, 568 feet, screens 215-220, 230-235, 280-290, 540-550. Land-surface datum is 255 feet above msl. Highest water level 1.76 below lsd, May 4, 1951; lowest 19.77 below lsd, Oct. 5, 1954. Records available: 1950-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.24	4.52	3.69	3.19	6.64	7.51	10.92	13.16	14.62	18.95	13.44	10.10
2	5.19	4.35	3.72	3.19	6.68	7.66	11.33	12.92	14.86	19.31	13.31	9.99
3	....	4.32	3.71	3.18	6.59	8.09	11.48	12.70	15.20	19.56	13.16	9.90
4	....	....	3.75	3.18	6.51	8.46	11.23	12.91	15.30	19.69	12.96	9.83
5	....	....	3.72	3.21	6.41	8.76	11.02	13.25	15.09	19.68	12.82	9.64
6	....	....	3.72	3.27	6.34	8.71	10.84	13.51	14.82	19.37	12.67	9.65
7	....	....	3.72	3.28	6.22	8.56	11.16	13.70	14.57	19.09	12.57	9.61
8	....	....	3.71	3.29	6.25	8.40	11.43	13.53	14.92	18.74	12.46	9.51
9	....	....	3.65	3.35	6.21	8.64	11.80	13.28	15.06	18.37	12.34	9.40
10	....	....	3.60	3.35	6.17	9.01	11.88	13.05	14.95	18.03	12.25	9.37
11	5.14	....	3.57	3.35	6.50	9.36	11.75	13.28	15.35	17.71	12.13	9.30
12	5.21	....	3.57	3.36	7.11	9.58	11.53	13.65	15.45	17.40	11.99	9.16
13	5.18	....	3.55	3.31	7.51	9.49	11.36	13.98	15.22	17.13	11.85	9.05
14	5.14	....	3.50	3.30	7.56	9.33	11.74	14.13	15.41	16.86	16.72	9.00
15	5.05	....	3.54	....	7.49	9.14	11.92	13.95	15.65	16.61	11.57	8.95
16	4.96	....	3.55	....	7.40	9.38	12.14	13.70	16.07	16.40	11.45	8.93
17	5.00	....	3.51	....	7.32	9.72	11.95	13.43	16.29	16.19	11.35	8.80
18	4.98	....	3.45	....	7.24	10.08	11.82	13.73	16.68	15.97	11.24	8.78
19	4.91	....	3.31	....	7.58	10.24	12.13	13.98	16.77	15.74	11.09	8.78
20	4.82	....	3.32	....	8.00	10.12	12.57	14.30	17.14	15.53	11.02	8.67
21	4.71	....	3.35	....	8.37	9.95	12.64	14.39	17.35	15.31	10.94	8.62
22	4.59	....	3.35	....	8.45	9.78	13.08	14.44	17.50	15.14	10.84	8.52
23	4.66	....	3.34	....	8.40	10.05	13.34	14.20	17.66	14.97	10.74	8.47
24	4.64	....	3.34	....	8.30	10.27	13.19	13.93	17.87	14.75	10.62	8.42
25	4.59	....	3.32	5.51	8.18	10.61	12.95	14.16	18.17	14.62	10.55	8.41
26	4.52	....	3.30	5.47	8.41	10.75	12.74	14.49	18.33	14.43	10.49	8.39
27	4.38	....	3.25	5.42	....	10.60	12.48	14.86	18.74	14.21	10.33	8.33
28	4.52	3.62	3.26	5.60	....	10.46	12.60	14.96	18.84	14.00	10.20	8.23
29	4.54	....	3.22	6.05	....	10.28	12.96	14.73	18.99	13.81	10.25	8.14
30	4.54	....	3.14	6.32	7.75	10.51	13.19	14.40	19.02	13.69	10.21	8.15
31	4.57	....	3.12	....	7.68	....	13.35	14.26	....	13.57	....	8.12

## Clayton County

7. H. P. Lieupo. Forest Park. Lat. 33°37'05", long. 84°23'12". Drilled domestic water-table well in granite, diameter 8 inches, depth 184 feet, cased to 14. Land-surface datum is 965 feet above msl. Highest water level 21.9 below lsd, Apr. 22, 1943; lowest 38.51 below lsd, Dec. 7, 1951. Records available: 1943-54. Dec. 21, 35.57.

27. G. T. Humphrey. Lat. 33°35'58", long. 84°22'38". Drilled domestic water-table well in granite, diameter 6 inches, depth 200 feet, cased to 200. Land-surface datum is 932 feet above msl. Highest water level 30.3 below lsd, Apr. 28, 1943; lowest 55.17 below lsd, Dec. 23, 1948. Records available: 1943-54. Dec. 21, 36.83.

Cobb County

11. Mrs. J. H. Carmichael. Oakdale. Lat. 33°50'27", long. 84°28'47". Drilled unused water-table well in schist, diameter 6 inches, depth 112 feet. Land-surface datum is 900 feet above msl. Highest water level 21.66 below lsd, May 27, 1953; lowest 33.47 below lsd, Dec. 22, 1947. Records available: 1943-54. Dec. 20, 27, 41.

14. J. A. Rust. Smyrna. Lat. 33°52'21", long. 84°29'59". Drilled industrial water-table well in injection complex, diameter 6 inches, depth 117 feet, cased to 40. Land-surface datum is 1,020 feet above msl. Highest water level 37.27 below lsd, Feb. 28, 1946; lowest 47.95 below lsd, Apr. 10, 1947. Records available: 1943-54. Dec. 20, 46, 44.

21. J. B. Gaines. Oakdale. Lat. 33°50'07", long. 84°28'10". Drilled domestic water-table well, diameter 6 inches, depth 85 feet, cased to 40. Land-surface datum is 858 feet above msl. Highest water level 29.70 below lsd, Aug. 4, 1949; lowest 34.94 below lsd, Dec. 8, 1951. Records available: 1943-54. Dec. 21, 23, 62.

25. J. T. Cox. Oakdale. Lat. 33°50'09", long. 84°28'22". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 70 feet. Land-surface datum is 875 feet above msl. Highest water level 12.81 below lsd, Apr. 16, 1947; long. 19.7 below lsd, Dec. 19, 1946. Records available: 1943-53. Measurement discontinued.

27. R. D. Webb. Oakdale. Lat. 33°50'21", long. 84°28'24". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 54 feet. Land-surface datum is 880 feet above msl. Highest water level 18.25 below lsd, Aug. 4, 1949; lowest 27.19 below lsd, Dec. 20, 1954. Records available: 1943-54. Dec. 20, 27, 19.

32. Mrs. F. C. Arnold. Lat. 33°41'32", long. 84°30'30". Drilled domestic water-table well, diameter 6 inches, depth 78 feet. Highest water level 12.72 below lsd, May 27, 1953, lowest 43.89 below lsd, Aug. 13, 1945. Records available: 1943-45, 1952-54. Dec. 20, 28, 47.

71. D. W. Cook. Oakdale. Lat. 33°50'38", long. 84°29'51". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 109 feet, cased to 40. Land-surface datum is 975 feet above msl. Highest water level 52.13 below lsd, Aug. 4, 1942; lowest 58.42 below lsd, Dec. 23, 1943. Records available: 1943-54. Dec. 20, 55, 35.

74. A. P. Hogan. Marietta. Lat. 33°56'36", long. 84°31'05". Drilled domestic water-table well in schist, diameter 7 inches, depth 96 feet. Land-surface datum is 1,150 feet above msl. Highest water level 42.30 below lsd, Feb. 28, 1946; lowest 49.4 below lsd, Jan. 7, 1944. Records available: 1943-53. No measurement made in 1954.

83. National Park Service. Kennesaw Mountain National Park. Lat. 33°59'00", long. 84°35'21". Drilled unused water-table well in diorite, diameter 6 inches, depth 51 feet, cased to 33. Land-surface datum is 1,150 feet above msl. Highest water level 3.14 below lsd, Feb. 28, 1946; lowest 5.78 below lsd, Dec. 20, 1954. Records available: 1943-54. Dec. 20, 5, 78.

85. D. C. Hames. Lat. 33°58'53", long. 84°33'57". Drilled unused water-table well, diameter 6 inches, depth 51 feet. Land-surface datum is 1,100 feet above msl. Highest water level 11.38 below lsd, Feb. 28, 1946; lowest 47.42 below lsd, Aug. 25, 1948. Records available: 1943-51, 1953-54. Dec. 20, 23, 03.

De Kalb County

17. Mrs. J. H. Anderson. Lat. 33°41'03", long. 84°20'50". Drilled unused water-table well in gneiss, diameter 6 inches, depth 250 feet. Land-surface datum is 862 feet above msl. Highest water level 25.88 below lsd, June 28, 1943; lowest 38.18 below lsd, Dec. 7, 1951. Records available: 1943-54. Dec. 20, 34, 55.

29. Mrs. A. H. Daniel. Glenwood Rd. and Columbia Drive, Decatur. Lat. 33°44'44", long. 84°15'41". Drilled unused water-table well in gneiss, diameter 6 inches, depth 111 feet. Land-surface datum is 1,002 feet above msl. Highest water level 36.73 below lsd, June 1, 1944, Feb. 26, 1946; lowest 40.69 below lsd, Dec. 7, 1951. Records available: 1944-54. Dec. 21, 37, 25.

34. I. W. Williams. Candler and Flat Shoals Rds., Panthersville. Lat. 33°42'15", long. 84°16'24". Drilled unused water-table well in gneiss, diameter 5 inches, depth 72 feet. Land-surface datum is 877 feet above msl. Highest water level 43.04 below lsd, Aug. 4, 1949; lowest 51.24 Dec. 21, 1954. Records available: 1944-54. Dec. 21, 51, 24.

39. C. R. Donaldson. Formerly L. N. Fassett. Decatur. Lat. 33°44'35", long. 84°15'20". Drilled unused water-table well in gneiss, diameter 6 inches, depth 82 feet. Land-surface datum is 986 feet above msl. Highest water level 34.39 below lsd, Feb. 26, 1946; lowest 41.46 below lsd, Dec. 21, 1954. Records available: 1944-54. Dec. 21, 41, 46.

40. Allen McCain. Glenwood and Candler Rds., Decatur. Lat. 33°44'12", long. 84°16'32". Drilled domestic water-table well in granite, diameter 8 inches, depth 281 feet, cased to 35. Land-surface datum is 923 feet above msl. Highest water level 1.71 below lsd, Dec. 15, 1953; lowest 15.15 below lsd, Aug. 4, 1949. Records available: 1944-54. Dec. 21, 2.07.

50a. Veterans of Foreign Wars. 1550 Moreland Ave., Atlanta. Lat. 33°42'40", long. 84°20'50". Drilled domestic water-table well in granite, diameter 6 inches, depth 270 feet, cased to about 20. Land-surface datum is 962 feet above msl. Highest water level 24.97 below lsd, May 28, 1953; lowest 30.78 below lsd, Dec. 20, 1954. Records available: 1953-54. Dec. 20, 30.78.

#### Effingham County

6. W. B. Butler. Eden. Lat. 32°10'41", long. 81°02'21". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 360 feet, cased to 80. Land-surface datum is 36.8 feet above msl. Highest water level 1.63 above lsd, Apr. 5, 1939; lowest 7.64 below lsd, Sept. 2, Dec. 2, 1954. Records available: 1939-54. Apr. 15, 4.78; Aug. 18, 6.48; Sept. 2, 7.64; Sept. 21, 6.85; Oct. 21, 7.18; Nov. 18, 7.48; Dec. 22, 7.64.

7. Central of Georgia Ry. Meldrim. Lat. 32°08'17", long. 81°22'54". Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 431 feet, cased to 273. Land-surface datum is 31.75 feet above msl. Highest water level 5.21 above lsd, Apr. 5, 1939; lowest 5.00, Dec. 22, 1954. Records available: 1939-44, 1951-54. Apr. 5, 2.06; Aug. 18, 3.74; Sept. 2, 4.13, Sept. 21, 4.01; Oct. 21, 4.55; Nov. 18, 4.81; Dec. 22, 5.00.

20. J. D. Hagin. Pineora. Lat. 32°17'11", long. 81°23'42". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 397 feet. Land-surface datum is 78 feet above msl. Highest water level 35.35 below lsd, Apr. 4, 1939; lowest 43.00 below lsd, Dec. 7, 1954. Records available: 1939-54. Dec. 7, 43.00.

#### Evans County

3. City of Claxton. Lat. 32°09'36", long. 81°54'34". Drilled municipal artesian well in Ocala limestone, diameter 6 inches, depth 620 feet. Land-surface datum is 182 feet above msl. Highest water level 110.26 below lsd, Aug. 4, 1948; lowest 116.22 below lsd, Nov. 30, 1953. Records available: 1939-54. Dec. 7, 112.41.

#### Fulton County

7. City of College Park. Lat. 33°39'12", long. 84°27'04". Drilled unused municipal water-table well, diameter 10 inches, Land-surface datum is 1,051 feet above msl. Highest water level 27.86 below lsd, Feb. 22, 1947; lowest 41.76 below lsd, Dec. 20, 1945. Records available: 1943-52. Measurement discontinued.

21. City of East Point. Lat. 33°40'16", long. 84°26'22". Drilled unused water-table well in gneiss, diameter 8 inches, depth 500 feet, cased to 106. Land-surface datum is 1,033 feet above msl. Highest water level 20.87 below lsd, May 27, 1953; lowest 23.72 below lsd, Dec. 21, 1954. Records available: 1946, 1952-54. Dec. 21, 23.72.

26. O'Neill Bros. East Point. Lat. 33°40'41", long. 84°26'23". Drilled unused industrial water-table well, diameter 10 inches, depth 350 feet. Land-surface datum is 1,038 feet above msl. Highest water level 12.85 below lsd, Apr. 11, 1948; lowest 25.06 below lsd, Feb. 10, 1944. Records available: 1943-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.52	.....	18.82	18.21	17.99	.....	.....	.....	20.33	20.62	21.59	.....
2	18.48	.....	18.74	18.22	17.96	.....	.....	.....	20.35	20.72	21.63	.....
3	18.50	.....	18.85	18.23	.....	.....	.....	.....	20.34	20.77	21.63	.....
4	18.47	.....	18.83	18.21	.....	.....	.....	.....	20.30	20.82	21.63	.....
5	18.46	.....	18.82	18.32	.....	.....	.....	.....	20.29	20.85	21.69	.....
6	18.48	.....	18.84	18.27	.....	.....	19.40	.....	20.27	20.94	21.67	.....
7	.....	.....	18.85	18.24	.....	.....	19.44	.....	20.22	20.98	21.71	.....
8	.....	.....	18.85	18.24	.....	.....	19.46	.....	20.18	20.98	21.73	.....
9	.....	.....	18.15	18.30	.....	.....	19.48	.....	20.14	21.00	21.77	.....
10	.....	.....	18.10	18.30	.....	.....	19.55	.....	20.14	21.03	21.82	.....
11	.....	.....	18.15	18.25	.....	.....	19.55	.....	20.09	21.07	21.84	.....
12	.....	.....	18.21	18.29	.....	.....	19.57	.....	20.11	21.11	21.84	.....
13	.....	.....	18.20	18.30	.....	.....	19.59	.....	20.17	21.10	21.86	.....
14	.....	.....	18.24	18.25	.....	.....	19.63	.....	20.21	21.11	21.87	.....
15	.....	.....	18.25	18.26	.....	.....	19.56	.....	20.19	21.18	21.89	.....
16	.....	.....	18.25	18.21	.....	.....	19.54	.....	20.18	21.20	21.90	22.25
17	.....	.....	18.19	18.22	.....	.....	19.49	.....	20.21	21.22	21.92	22.21
18	.....	.....	18.13	18.17	.....	.....	19.50	.....	20.20	21.27	21.90	22.20
19	.....	.....	18.03	18.16	.....	.....	19.51	.....	20.19	21.30	21.89	22.22
20	.....	.....	18.06	18.14	.....	.....	19.54	.....	20.21	21.34	21.94	22.21

## 26--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	.....	.....	18.14	18.12	.....	.....	19.55	20.14	20.23	21.40	21.97	22.21
22	.....	.....	18.16	18.07	.....	.....	19.56	20.14	20.39	21.45	21.98	22.19
23	.....	18.70	18.15	18.05	.....	.....	19.52	20.16	20.39	21.47	22.00	22.20
24	.....	18.68	18.19	18.01	.....	.....	19.54	20.17	20.37	21.49	22.02	22.56
25	.....	18.78	18.15	18.01	.....	.....	.....	20.19	20.41	21.40	22.05	22.30
26	.....	18.67	18.25	17.97	.....	.....	.....	20.18	20.51	21.44	.....	22.31
27	.....	18.70	18.19	17.98	.....	.....	.....	20.21	20.57	21.45	.....	22.30
28	.....	18.77	18.17	17.97	.....	.....	.....	20.25	20.57	21.45	.....	22.29
29	.....	.....	18.09	17.94	.....	.....	.....	20.28	20.62	21.47	.....	22.24
30	.....	.....	18.07	18.00	.....	.....	.....	20.28	20.57	21.53	.....	22.32
31	.....	.....	18.05	.....	.....	.....	.....	20.29	.....	21.56	.....	22.34

32. International Minerals & Chemical Corp. East Point. Lat. 33°40'10", long. 84°26'14". Drilled unused industrial water-table well, depth 505 feet. Land-surface datum is 1,039 feet above msl. Highest water level 18.57 below lsd, Aug. 5, 1949; lowest 56.29 below lsd, Dec. 21, 1943. Records available: 1943-53. Measurement discontinued.

77. E. S. Nix. Bolton. Lat. 33°37'36", long. 84°29'34". Drilled domestic water-table well in gneiss, diameter 8 inches, depth 84 feet, cased to 44. Land-surface datum is 844 feet above msl. Highest water level 18.00 below lsd, Dec. 16, 1953; lowest 27.03 below lsd, Dec. 20, 1954. Records available: 1943-54. Dec. 20, 27.03.

## Glynn County

3. Atlantic Refining Co. Arco. Lat. 31°11'01", long. 81°30'34". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 983 feet, cased to 501. Land-surface datum is 10.6 feet above msl. Highest water level 36.50 above lsd, Dec. 25, 1944; lowest 11.3 above lsd, Dec. 8, 1954. Records available: 1938-54.

## Daily highest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.9	16.4	15.4	15.1	....	14.4	13.4	13.0	13.1	....	12.8	12.9
2	16.8	16.2	16.0	14.9	....	14.7	13.4	13.4	13.0	....	13.0	13.0
3	16.8	16.2	16.2	15.6	....	13.9	13.3	13.4	13.0	13.5	12.3	13.1
4	16.7	16.3	15.3	15.5	....	13.7	13.3	....	12.9	13.5	12.0	13.2
5	16.6	16.4	15.5	15.3	....	13.7	13.4	....	12.9	13.3	12.1	12.9
6	16.5	16.7	15.5	15.3	....	13.8	13.4	....	12.8	13.2	12.8	12.5
7	16.1	16.2	16.1	15.2	....	13.9	13.5	....	12.7	13.3	12.8	12.2
8	16.9	17.3	16.3	16.8	....	13.7	13.4	....	12.9	12.6	12.4	13.5
9	16.9	18.2	16.2	17.3	....	13.9	13.1	....	13.0	13.3	12.5	12.3
10	16.5	17.6	16.8	16.3	....	13.9	13.5	13.0	13.1	13.5	12.4	12.2
11	16.0	16.9	16.7	15.4	15.0	13.7	13.7	13.0	13.0	13.3	12.4	12.6
12	15.7	16.2	16.5	16.7	14.4	13.6	13.5	12.8	13.0	13.5	13.7	13.0
13	15.4	16.2	16.5	16.8	15.4	13.6	13.2	13.0	13.0	13.2	13.3	12.4
14	16.4	16.2	16.4	17.2	14.9	13.8	....	13.0	13.1	13.6	12.6	12.2
15	16.7	16.2	15.5	17.4	14.4	13.3	....	12.9	13.1	13.9	13.0	12.4
16	16.8	16.2	15.6	17.3	14.4	13.4	....	13.1	13.3	13.8	13.5	12.8
17	16.4	16.3	15.7	15.6	14.5	13.3	....	....	13.2	13.1	13.4	12.3
18	16.3	15.6	15.8	15.6	14.6	13.2	....	13.1	13.3	13.3	12.5	12.6
19	17.2	16.2	15.6	15.3	14.8	13.2	....	13.0	13.8	13.6	12.6	12.1
20	17.1	16.4	15.7	14.7	14.6	13.5	....	13.0	13.3	13.3	12.6	12.0
21	16.8	16.4	16.4	14.9	13.3	13.7	13.4	12.7	13.2	13.2	13.0	12.0
22	16.7	16.1	16.7	15.2	14.3	13.8	13.3	12.8	13.2	13.1	12.9	12.6
23	16.0	16.3	16.2	15.4	14.3	13.7	13.2	12.6	13.1	13.0	12.8	12.9
24	15.7	15.7	15.9	15.3	14.2	13.8	13.5	12.3	13.0	13.0	13.0	17.0
25	16.7	16.3	15.9	15.2	15.2	13.7	13.5	12.9	13.3	13.0	13.9	17.6
26	16.0	16.2	15.9	15.1	14.8	13.7	13.2	12.9	13.3	13.1	12.6	18.2
27	16.7	16.5	15.5	15.4	14.0	13.8	13.0	12.8	13.8	13.0	13.0	15.0
28	16.6	16.6	15.6	....	14.9	13.3	....	13.0	13.4	13.2	13.3	14.1
29	16.6	.....	15.2	....	14.8	13.2	13.0	13.0	13.4	13.1	13.0	14.0
30	15.9	.....	16.0	....	14.7	13.3	13.6	13.2	13.3	13.1	12.8	13.6
31	15.9	.....	15.9	.....	14.5	.....	13.6	13.1	.....	12.5	.....	13.6

## Daily lowest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.7	15.3	15.0	14.7	....	13.7	12.2	11.9	12.1	....	11.8	11.5
2	15.7	15.3	15.0	14.6	....	13.9	12.2	12.3	11.9	....	11.8	11.7
3	15.6	15.7	15.0	14.5	....	13.2	12.2	12.4	11.9	12.5	11.6	11.7
4	15.5	15.1	14.9	14.4	....	13.2	12.2	....	11.9	12.5	11.4	11.7
5	15.6	15.2	15.0	14.3	....	13.0	12.1	....	11.8	12.4	11.8	11.8

## 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	15.6	15.6	15.0	14.2	....	12.8	12.2	....	11.8	12.3	11.8	11.5
7	15.4	15.4	15.1	14.1	....	12.8	12.0	....	11.9	12.3	11.6	11.4
8	15.4	15.2	15.2	15.7	....	12.8	12.1	....	12.0	12.0	11.6	11.3
9	15.5	16.2	15.4	16.2	....	12.5	12.2	....	12.2	12.1	11.7	11.6
10	15.5	15.9	15.5	15.3	....	12.7	12.2	11.9	12.4	12.2	11.5	11.6
11	15.3	15.6	15.5	14.7	13.3	12.6	12.5	12.2	12.2	12.3	11.6	11.4
12	15.1	15.2	15.3	14.7	13.3	12.5	12.4	12.1	11.9	12.3	11.7	11.4
13	15.0	15.2	15.3	15.1	13.8	12.5	12.2	11.9	12.2	12.3	11.7	11.9
14	15.0	15.2	15.1	16.6	13.7	12.5	....	12.0	12.1	12.4	12.0	11.5
15	15.3	15.2	14.7	16.7	13.5	12.5	....	11.8	12.3	12.4	12.0	11.7
16	15.5	15.2	14.7	15.5	13.3	12.5	....	12.1	12.3	12.2	12.2	11.4
17	15.2	15.3	14.6	14.9	13.4	12.4	....	....	12.4	12.0	12.1	11.9
18	15.1	15.2	14.7	14.7	13.4	12.4	....	11.9	12.4	12.1	12.0	12.0
19	15.3	15.2	15.2	14.4	13.8	12.6	....	12.0	12.2	12.1	12.0	11.7
20	16.2	15.3	15.3	14.3	13.6	12.7	....	11.8	12.5	12.2	12.0	11.7
21	15.8	15.3	15.3	14.2	13.3	12.7	12.4	11.8	12.5	12.1	11.9	11.6
22	15.9	15.1	14.8	14.3	13.2	12.5	12.2	11.9	12.6	12.0	11.8	12.0
23	15.5	15.1	15.0	14.4	13.2	12.5	12.2	11.9	12.5	12.0	11.0	11.8
24	15.3	15.3	14.7	14.2	13.0	12.5	12.2	11.9	12.2	12.0	11.8	13.5
25	15.4	15.3	14.7	14.1	13.1	12.5	12.5	12.0	12.5	12.0	11.8	17.0
26	15.5	15.4	14.7	14.1	14.2	12.5	12.1	12.1	12.3	12.0	11.7	15.0
27	15.1	15.4	14.7	14.2	13.7	12.6	12.0	12.3	12.5	12.0	11.7	14.0
28	15.3	15.3	14.7	....	13.8	12.7	....	12.4	12.3	12.1	12.0	13.9
29	15.3	....	14.8	....	13.8	12.3	12.0	12.2	12.5	12.2	11.6	12.7
30	15.4	....	14.9	....	13.8	12.5	12.0	12.4	12.5	12.0	11.4	13.0
31	15.3	....	14.7	....	13.6	....	12.0	12.3	....	12.0	....	12.2

13. U. S. Dept. of Commerce. St. Simon Island. Lat. 31°07'57", long. 81°23'41". Drilled domestic artesian well in Ocala limestone, diameter 4 to 3 to 2 inches, depth 627 feet, cased to 500. Land-surface datum is 13.5 feet above msl. Highest water level 36.63 above lsd, Dec. 13, 1938; lowest 21.12 above lsd, Dec. 9, 1954. Records available: 1938, 1940-54. Dec. 9, +21.12.

37. F. G. Horne. St. Simon Island. Lat. 31°13'08", long. 81°23'31". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 640 feet, cased to about 500. Land-surface datum is 13.88 feet above msl. Highest water level 36.0 above lsd, Jan. 11, 1939; lowest 22.02 above lsd, Dec. 9, 1954. Records available: 1939, 1941-54. Dec. 9, +22.02.

44. Sea Island Co. Gun Club on St. Simon Island. Lat. 31°10'40", long. 81°21'29". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 640 feet, cased to about 500. Land-surface datum is 7.3 feet above msl. Highest water level 40.96 above lsd, Jan. 11, 1939; lowest 29.74 above lsd, Dec. 9, 1954. Records available: 1939-54. Dec. 9, +29.74.

63. S. L. Lewis. Near Southern Junction. Lat. 31°13'45", long. 81°31'43". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 700 feet. Land-surface datum is 26 feet above msl. Highest water level 22.47 above lsd, Feb. 2, 1939; lowest 8.04 above lsd, Dec. 9, 1954. Records available: 1939, 1942-54. Dec. 9, +8.04.

100. New England Tourist Camp. Lat. 31°15'10", long. 81°26'29". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 600 feet, cased to about 300. Land-surface datum is 16.9 feet above msl. Highest water level 25.1 above lsd, June 20, 1939; lowest 14.10 above lsd, Dec. 9, 1954. Records available: 1939-54. Dec. 9, +14.10.

138. G. F. Cowman. Lat. 31°08'22", long. 81°34'30". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 665 feet, cased to about 500. Land-surface datum is 8 feet above msl. Highest water level 36.5 above lsd, Sept. 13, 1939; lowest 25.68 above lsd, Dec. 10, 1954. Records available: 1939-54. Dec. 10, +25.68.

192. Edgar Rittenhouse. Brunswick. Lat. 31°10'44", long. 81°30'36". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 640 feet, cased to 520. Land-surface datum is 13.0 feet above msl. Highest water level 30.58 above lsd, Dec. 27, 1940; lowest 9.32 above lsd, Dec. 9, 1954. Records available: 1939-54. Dec. 9, +9.32.

### Henry County

11. D. J. Arnold. Hampton. Lat. 33°22'53", long. 84°17'10". Drilled unused water-table well in gneiss, diameter 6 inches, depth 173 feet. Land-surface datum is 890 feet above msl. Records available: 1943-52. Measurement discontinued.

### Liberty County

75. Mrs. E. P. Way. Lat. 31°41'11", long. 81°24'27". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 187. Land-surface datum is 26 feet above msl. Highest water level 25.48 above lsd, Feb. 9, 1939; lowest 16.44 above lsd, Dec. 7, 1952. Records available: 1939, 1941-54. Dec. 8, +16.50.

95. J. Blount. On Colonels Island. Lat.  $31^{\circ}43'53''$ , long.  $81^{\circ}15'53''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet. Land-surface datum is 8 feet above msl. Highest water level 16.63 above lsd, Dec. 1, 1948; lowest 12.60 above lsd, Dec. 3, 1953. Records available: 1939, 1941-53. No measurement made in 1954.

137. H. A. Bacon. Hinesville. Lat.  $31^{\circ}50'59''$ , long.  $81^{\circ}35'25''$ . Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 527 feet, cased to 400. Land-surface datum is 47 feet above msl. Highest water level 3.40 above lsd, Apr. 26, 1939; lowest 7.13 below lsd, Dec. 8, 1954. Records available: 1939-54. Dec. 8, 7.13.

170. J. H. Woodall. Lat.  $31^{\circ}50'52''$ , long.  $81^{\circ}24'35''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 503 feet, cased to 463. Land-surface datum is 10 feet above msl. Highest water level 14.27 above lsd, June 30, 1941; lowest 8.80 above lsd, Dec. 8, 1954. Records available: 1941-54. Dec. 8, +8.80.

177. P. E. Youmans. On Colonels Island. Lat.  $31^{\circ}43'56''$ , long.  $81^{\circ}14'27''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 490 feet, cased to 100. Land-surface datum is 13 feet above msl. Highest water level 12.35 above lsd, Aug. 26, 1945; lowest 7.28 above lsd, Dec. 8, 1954. Records available: 1942-54. Dec. 8, +7.28.

#### Long County

8. Town of Ludowici. Lat.  $31^{\circ}42'41''$ , long.  $81^{\circ}44'45''$ . Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 579 feet. Land-surface datum is 66 feet above msl. Highest water level 9.29 below lsd, Mar. 18, 1940; lowest 22.16 below lsd, Dec. 10, 1954. Records available: 1940-47, 1949-54. Dec. 10, 22.16.

#### McIntosh County

14. C. H. Stebbins. Lat.  $31^{\circ}38'15''$ , long.  $81^{\circ}23'35''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches. Land-surface datum is 17 feet above msl. Highest water level 22.15 above lsd, Feb. 9, 1939; lowest 12.78 above lsd, Dec. 9, 1954. Records available: 1939, 1941-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 13, 1950	+18.77	Dec. 6, 1951	+17.42	Dec. 7, 1952	+16.44	Dec. 4, 1953	+16.75
Dec. 9	+18.20	July 16, 1952	+17.24	May 20, 1953	+16.75	Dec. 9, 1954	+12.78
Aug. 18, 1951	+17.63						

22. D. E. McDonald. Eulonia. Lat.  $31^{\circ}31'53''$ , long.  $81^{\circ}25'53''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 540 feet, cased to 220. Land-surface datum is 19 feet above msl. Highest water level 22.40 above lsd, Mar. 6, 1939; lowest 15.2 above lsd, July 16, 1952. Records available: 1939, 1941-47, 1949-53. Measurement discontinued.

43. Shellman Bluff. Lat.  $31^{\circ}34'08''$ , long.  $81^{\circ}19'27''$ . Drilled municipal artesian well in Ocala limestone, diameter 3 inches, depth 650 feet. Land-surface datum is 15 feet above msl. Highest water level 34.75 above lsd, Mar. 12, 1939; lowest 13.98 above lsd, Dec. 9, 1954. Records available: 1939, 1941-43, 1945-47, 1949-54. Dec. 9, +13.98.

85. John D. Gibb. Formerly R. C. Collins. Lat.  $31^{\circ}30'19''$ , long.  $81^{\circ}23'04''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 918 feet, cased to about 600. Land-surface datum is 28 feet above msl. Highest water level 0.95 below lsd, Mar. 30, 1939; lowest 9.95 below lsd, Dec. 9, 1954. Records available: 1939-54. Dec. 9, 9.95.

103. A. M. Durant. Valona. Lat.  $31^{\circ}28'41''$ , long.  $81^{\circ}20'33''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 600 feet, cased to about 200. Land-surface datum is 10 feet above msl. Highest water level 29.05 above lsd, Apr. 11, 1939; lowest 19.35 above lsd, Dec. 9, 1954. Records available: 1939-41, 1943, 1945-54. Dec. 9, +19.35.

141. Sam Gardner. Lat.  $31^{\circ}27'19''$ , long.  $81^{\circ}29'03''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 496 feet, cased to about 400. Land-surface datum is 23 feet above msl. Highest water level 23.14 above lsd, Apr. 27, 1939; lowest 14.60 above lsd, Dec. 9, 1954. Records available: 1939-47, 1949-54. Dec. 9, +14.60.

144. Col. Talbot Smith. Lat.  $31^{\circ}23'25''$ , long.  $81^{\circ}24'27''$ . Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 716 feet, cased to about 600. Land-surface datum is 20 feet above msl. Highest water level 25.85 above lsd, Apr. 28, 1939; lowest 13.70 above lsd, Dec. 9, 1954. Records available: 1939-54. Dec. 9, +13.70.

180. D. C. Cowart. Eulonia. Lat.  $31^{\circ}31'30''$ , long.  $81^{\circ}25'59''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 500 feet. Land-surface datum is 1.8 feet above msl. Highest water level 23.26 above lsd, Aug. 27, 1949; lowest 16.33 above lsd, Dec. 9, 1954. Records available: 1942-54. Dec. 9, +16.33.

Mitchell County

9. City of Camilla. Lat. 31°14'09", long. 84°12'19". Drilled municipal artesian well in Ocala limestone, diameter 12 inches, depth 300 feet. Land-surface datum is 181 feet above msl. Highest water level 43.30 below lsd, June 10, 1944; lowest 63.90 below lsd, Dec. 2, 1941. Records available: 1941-46, 1950-51. Measurement discontinued.

Montgomery County

1. H. V. Thompson. Ailey. Lat. 32°11'09", long. 82°34'24". Drilled industrial artesian well in Ocala limestone, diameter 6 to 4 inches, depth 403 feet, cased to 345. Land-surface datum is 255 feet above msl. Highest water level 104.60 below lsd, June 15, 1943; lowest 111.65 below lsd, Dec. 6, 1954. Records available: 1941-43, 1945-46, 1949-51, 1953-54. Dec. 6, 111.65.

Pierce County

2. City of Blackshear. Lat. 31°18'11", long. 82°14'09". Drilled unused artesian well in Ocala limestone, diameter 8 inches, depth 825 feet, cased to 450. Land-surface datum is 130.6 feet above msl. Highest water level 57.08 below lsd, Dec. 8, 1947; lowest 63.8 below lsd, July 18, 1952. Records available: 1939-43, 1945-54. Dec. 10, 69.67, nearby well pumping.

5. Town of Patterson. Lat. 31°23'11", long. 82°08'00". Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 635 feet, cased to 447. Land-surface datum is 104 feet above msl. Highest water level 30.71 below lsd, Dec. 8, 1947; lowest 39.93 below lsd, Dec. 10, 1954. Records available: 1941-43, 1945-54. Dec. 10, 39.93.

Screven County

3. City of Sylvania. Lat. 32°45'03", long. 81°36'40". Drilled municipal artesian well in Ocala limestone, diameter 10 to 8 inches, depth 490 feet. Land-surface datum is 218 feet above msl. Highest water level 103.0 below lsd, Aug. 8, 1949; lowest 113.62 below lsd, July 14, 1952. Records available: 1939, 1943, 1945-47, 1949-54. Dec. 7, 110.25.

8. W. W. Yant. Dover. Lat. 32°34'38", long. 81°42'49". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 255 feet, cased to 90. Land-surface datum is 103 feet above msl. Highest water level 18.30 above lsd, July 14, 1952; lowest 13.30 above lsd, Dec. 7, 1954. Records available: 1939, 1943, 1945-46, 1949-54. Dec. 7, +13.30.

Spalding County

12. State Experiment Station. Lat. 33°15'07", long. 84°17'18". Dug unused water-table well in residuum, size 4 by 4 feet, depth 30 feet. Land-surface datum is 960 feet above msl. Highest water level 8.26 below lsd, Mar. 19, Apr. 11, 1948; lowest 21.08 below lsd, Dec. 8, 1943. Records available: 1943-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.60	12.39	13.08	13.32	14.02	15.14	.....	16.75	17.65	18.86	20.25	20.27
2	11.47	12.29	13.18	13.33	14.01	15.16	.....	16.76	17.69	18.89	20.26	20.12
3	11.42	.....	13.12	13.27	14.00	15.20	.....	16.83	17.72	18.92	20.30	20.18
4	11.39	.....	13.24	13.28	14.03	15.28	.....	16.89	17.76	18.90	20.32	20.19
5	11.29	.....	13.19	13.35	14.12	15.37	.....	16.89	17.80	18.93	20.32	20.17
6	11.32	.....	13.16	13.30	14.14	15.42	.....	16.86	.....	18.96	20.34	.....
7	11.46	.....	13.18	13.28	14.14	15.43	.....	16.92	.....	19.06	20.34	.....
8	11.47	.....	13.21	13.28	14.27	15.44	.....	16.96	.....	19.10	.....	.....
9	11.46	.....	13.16	13.40	14.27	15.49	.....	16.95	.....	19.10	.....	.....
10	11.32	.....	13.14	13.44	14.38	15.52	.....	16.99	.....	19.11	.....	.....
11	11.41	.....	13.17	13.41	14.38	15.55	.....	16.99	.....	19.15	.....	.....
12	11.70	.....	13.25	13.43	14.39	15.62	16.41	17.06	.....	19.20	.....	.....
13	11.75	.....	13.29	13.48	14.35	15.63	16.42	17.11	.....	19.26	.....	20.08
14	11.68	.....	13.33	13.41	14.48	15.71	16.46	17.15	.....	19.28	.....	20.08
15	11.56	12.91	13.43	13.46	14.54	15.71	16.45	17.19	.....	19.26	20.39	20.05
16	11.54	12.91	13.45	13.34	14.57	15.74	16.43	17.20	.....	19.38	20.37	20.10
17	11.75	12.96	13.44	13.53	14.57	15.81	16.43	17.22	.....	19.46	20.29	20.02
18	.....	13.03	.....	13.61	14.58	15.86	16.43	17.27	.....	19.49	20.31	19.98
19	.....	13.03	.....	13.64	14.61	15.85	16.44	17.31	.....	19.49	20.33	19.99
20	11.91	12.97	.....	13.69	14.62	15.86	16.43	17.32	.....	19.51	20.24	19.99
21	11.97	13.00	.....	13.67	14.78	15.89	16.43	17.37	.....	19.54	20.18	19.99
22	11.82	13.09	13.39	13.69	14.80	.....	16.44	17.42	.....	19.60	20.36	19.98
23	12.16	13.05	13.30	13.71	14.80	.....	16.46	17.44	.....	19.66	20.40	19.91
24	12.19	12.12	13.33	13.74	14.80	15.98	16.50	17.44	.....	19.69	20.32	19.90
25	12.18	13.01	13.33	13.77	14.82	15.99	16.57	17.42	.....	19.99	20.23	19.90

12--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	12.19	12.95	13.39	13.79	14.86	16.01	16.61	17.45	.....	20.00	20.21	19.96
27	12.14	13.02	13.37	13.79	14.88	16.01	16.63	17.50	18.66	20.04	20.21	19.93
28	12.27	12.95	13.31	13.78	14.88	16.05	16.65	17.52	18.68	20.04	20.13	19.88
29	12.29		13.26	13.90	14.94	.....	16.68	17.54	18.72	20.09	20.21	19.81
30	12.29		13.16	13.98	14.98	.....	16.72	17.55	18.82	20.13	20.29	19.93
31	12.04		13.18		14.16		16.75	17.58		20.16		19.93

Ware County

6. State of Georgia. Laura S. Walker State Park. Lat.  $31^{\circ}08'50''$ , long.  $82^{\circ}13'02''$ . Drilled domestic artesian well in Ocala limestone, diameter 6 inches, depth 600 feet. Land-surface datum is 205 feet above msl. Highest water level 52.32 below lsd, Mar. 12, 1942; lowest 58.11 below lsd, Dec. 5, 1953. Records available: 1941-43, 1945-46, 1949-53. No measurement made in 1954.

Wayne County

3. A. W. Hurn. Gardi. Lat.  $31^{\circ}32'13''$ , long.  $81^{\circ}47'58''$ . Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 560 feet. Land-surface datum is 62 feet above msl. Highest water level 1.75 below lsd, May 18, 1939; lowest 14.67 below lsd, Dec. 11, 1954. Records available: 1939-43, 1945-54. Dec. 11, 14.67.

10. Town of Screven. Lat.  $31^{\circ}29'09''$ , long.  $82^{\circ}01'11''$ . Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 931 feet, cased to 572. Land-surface datum is 123 feet above msl. Highest water level 55.43 below lsd, Dec. 8, 1947; lowest 60.98 below lsd, Dec. 8, 1952. Records available: 1940-43, 1945-54. Dec. 10, 69.34, pumped recently.



## KENTUCKY

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By G. E. Hendrickson, E. A. Bell, and R. W. Kellogg

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### Scope of Water-Level Program

The statewide observation-well program was continued in 1954 in cooperation with the Agricultural and Industrial Development Board of Kentucky. Of the 88 observation wells included in this report (see figs. 19 and 20), 31 have records of 10 years or more, 26 have records of 5 to 10 years, and 31 have records of less than 5 years. The water-level program is a part of a comprehensive investigation of the ground-water resources of the State. This includes reconnaissance investigations of the availability of ground water for public, industrial, agricultural, and domestic use in the entire State, collection of records of water levels in observation wells and of discharge of springs, and detailed investigations in selected small areas. Reports on public and industrial water supplies of the Jackson Purchase region, Blue Grass region, and Western Coal Field region were published as Circulars 287, 299, and 339.

### Precipitation

The drought of 1952 and 1953 continued into the summer of 1954. The drought was broken by above-normal precipitation in August and September. However, the total precipitation for the year at Louisville (city station), according to the U. S. Weather Bureau, was only 33.36 inches, 8.24 inches below the 1921-50 normal of 41.60 inches.

### Interpretation of Water-Level Fluctuations

Fluctuations in water levels measure changes in ground-water storage. The water level at any given time indicates the balance between recharge and discharge in the aquifer. Rising water levels indicate that more water is being recharged than discharged, and falling water levels indicate that more water is being discharged than recharged. Recharge to the aquifers in Kentucky is generally from local precipitation and from infiltration of surface water. Discharge is chiefly to streams and springs, although some ground water is lost by evapotranspiration, and, locally, water is pumped from wells. In Kentucky, outside of heavily pumped areas, water levels are generally highest in late winter and early spring and lowest in late summer and early fall. During the growing season, soil moisture is depleted, rainfall is retained by the soil, and little water reaches the ground-water body. During this period, discharge to streams is greater than recharge from precipitation, and water levels fall. Later, after the frost has halted the growth of most vegetation, the soil-moisture deficiency is satisfied and more water can reach the ground-water body. Recharge by precipitation is then greater than discharge to streams, and water levels rise. Other factors affecting the fluctuation of water levels in wells in Kentucky are changes in water level in nearby streams (especially during floods), changes in barometric pressure, and changes in pumpage. In most areas in Kentucky, fresh water does not travel more than a few miles from the place of recharge to the place of discharge. Consequently, changes in water levels in individual observation wells reflect only local changes in ground-water storage. To determine the changes in storage in broad areas, it is necessary to maintain a number of observation wells which penetrate the different aquifers in various topographic situations. In the Jackson Purchase region and in the deep saline aquifers elsewhere in the State, ground water may move several tens of miles from the point of recharge to the point of discharge. Changes in water levels in wells in these deep aquifers may indicate changes in storage in larger areas.

Figure 21 shows the hydrographs of five wells in Kentucky which are more or less typical of aquifers other than the Ohio Valley alluvium. Figure 22 shows the hydrographs of seven wells in the Ohio Valley alluvium, the major producing aquifer of the State.

Johnson County well 8245-3745-404, in the Breathitt formation in a valley bottom in the Eastern Coal Field region, is more or less typical of valley wells in this region. The hydrograph of this well (fig. 21) shows a seasonal cycle of declining water levels during the growing season and rising water levels in the late fall and winter. The winter high is generally  $2\frac{1}{2}$  to 3 feet higher than the late summer low-water stage. Minor fluctuations of a magnitude of about 1 foot or less are probably due to the effect of local rains or local flooding of the nearby streams. Minor fluctuations of a few tenths of a foot, not readily apparent in the hydrograph, are due to changes in barometric pressure.

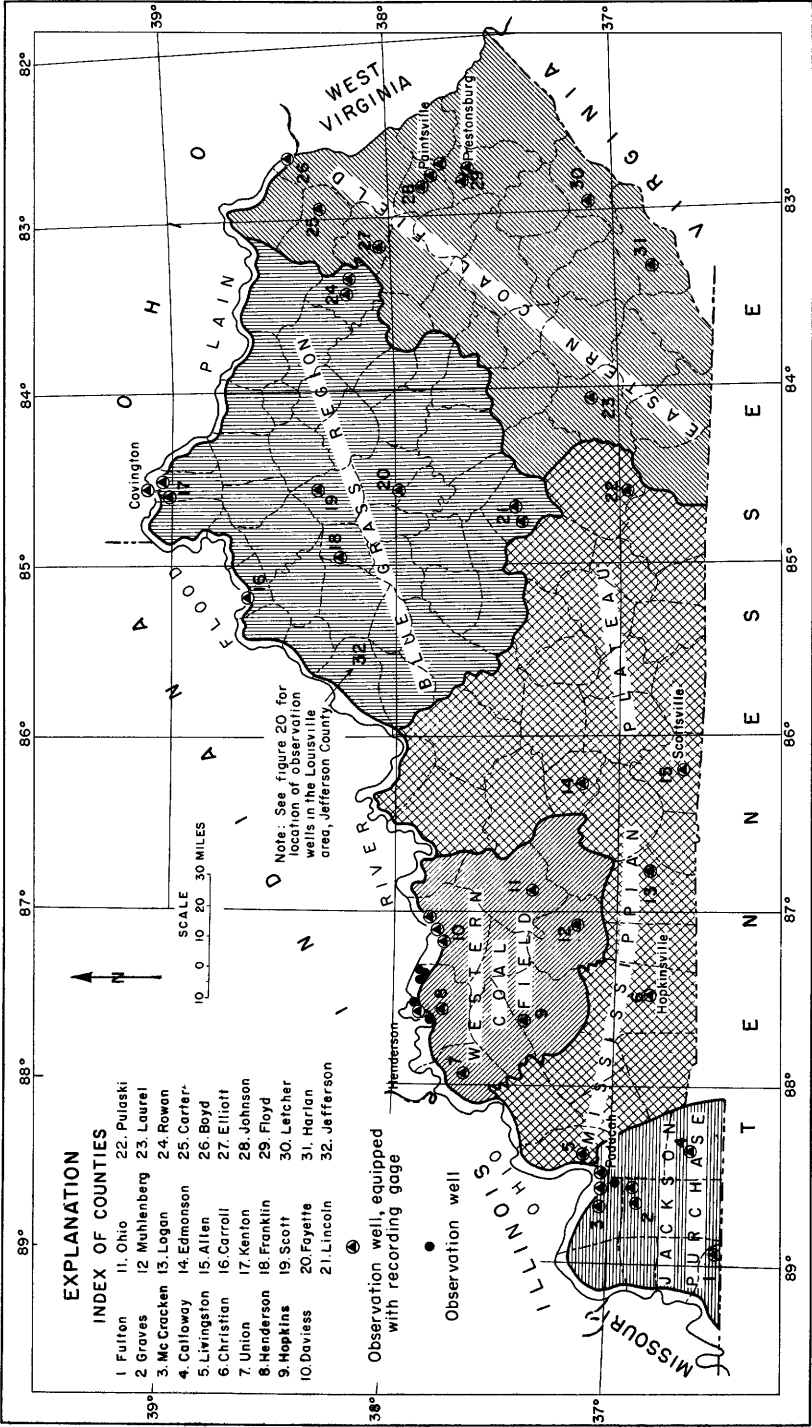


Figure 19. --- Physiographic units and location of observation wells in Kentucky, 1954.

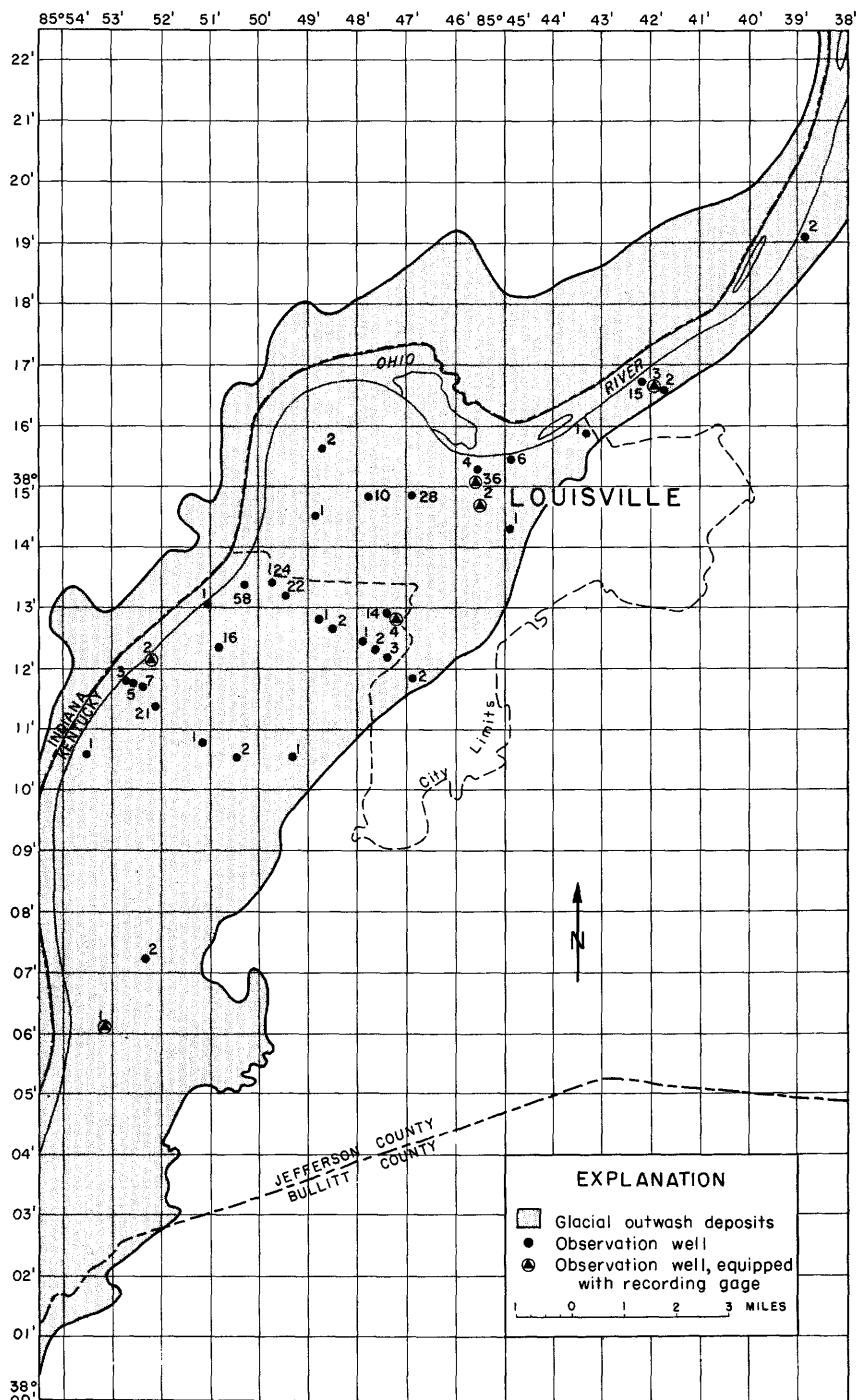


Figure 20. --Location of observation wells in the Louisville, Ky., area, 1954.

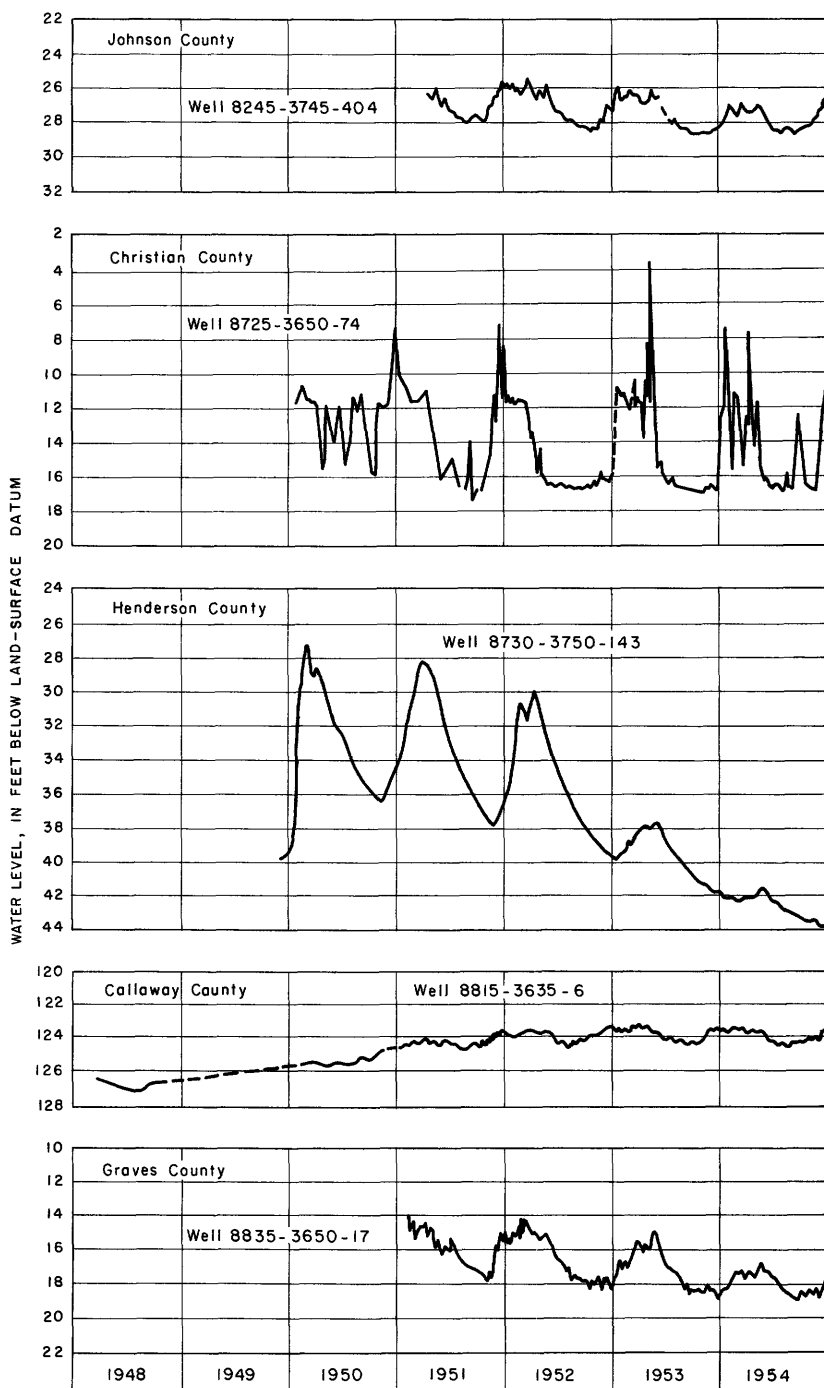


Figure 21. --Water levels in five wells representative of various areas in Kentucky.

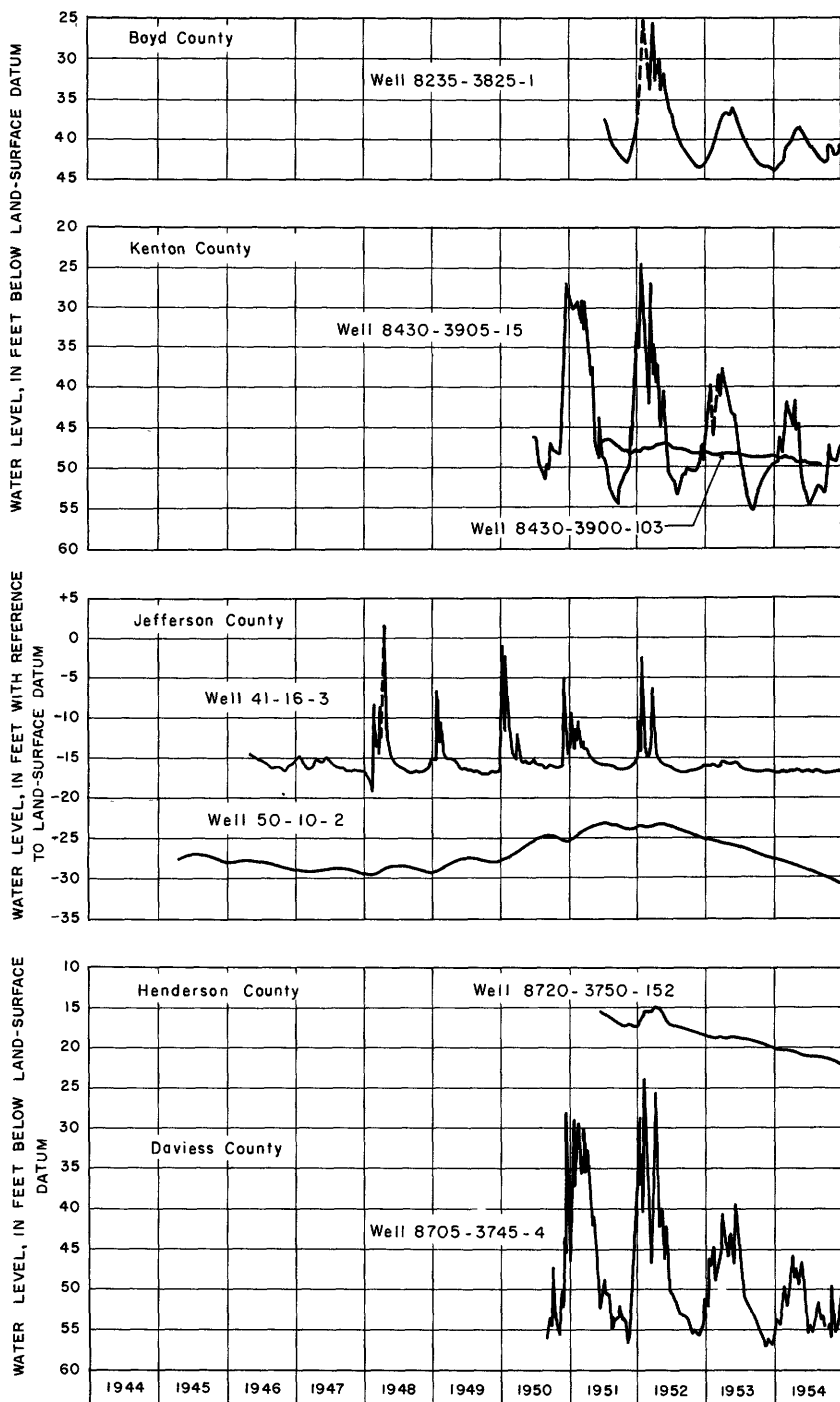


Figure 22. --Water levels in seven wells in the Ohio River flood plain, Kentucky.

Christian County well 8725-3650-74, a water-table well in the Ste. Genevieve limestone in a valley bottom in the Mississippian Plateau region, is more or less typical of valley wells in the soluble limestones of the Meramec group, which underlie about half of the Mississippian Plateau region. The hydrograph of this well (fig. 21) shows a rapid response to local rainfall. The seasonal cycle is not very apparent in 1950, an unusually wet year, but it is conspicuous in the years 1951 to 1954. Disregarding the short-term rises due to local precipitation, water levels during the years 1951 to 1954 were generally 5 to 10 feet higher in the late winter than in the late summer or fall seasons. The storage coefficient of the limestone in this area has been determined to be about 0.006. Thus, a seasonal fluctuation of water level of about 5 feet represents a change in storage of about 0.36 inch.

Henderson County well 8730-3750-143, in an area of alluvial terraces along the Ohio River in the Western Coal Field region, is an artesian well in the sandstone and shale of the Carbondale formation. The hydrograph of this well (fig. 21) shows a seasonal cycle which lags behind the cycle indicated for the wells described above. The cause of this lag in time may be that the recharge area of the aquifer is located some distance away from the well. The amplitude of the seasonal cycle was about 10 feet in the years 1950 to 1952 but only 4 feet in 1953 and 2 feet in 1954. The decline of low-water stages from 1950 to 1954 was about 7 feet. The storage coefficient of the aquifer in this area has not been determined, and no estimate of the changes in storage can be made.

Calloway County well 8815-3635-6 is an artesian well in sand of the Ripley formation, one of the major aquifers in the Jackson Purchase region. The record of water levels (fig. 21) was interrupted in 1949. The available record indicates a fairly steady rise in water levels from 1948 to 1953 and little change in 1954. The gradual rise of water levels in the dry years of 1952 and 1953 may be due to the distance from the well to the recharge area, or it may be due to changes in pumping in nearby wells. A seasonal cycle is apparent in this hydrograph, but it is of small magnitude (less than 1 foot) and is partly obscured by minor fluctuations which may be due to nearby pumping or to changes in barometric pressure.

Graves County well 8835-3650-17 is an artesian well in the Holly Springs sand, another major aquifer in the Jackson Purchase region. The hydrograph (fig. 21) shows a seasonal cycle having an amplitude of about 4 feet. The seasonal low-water level declined about 1 foot during the period 1951 to 1954. The pronounced seasonal fluctuations and prompt response to drought conditions suggest that the recharge area for the aquifer penetrated by this well is closer to the well than is the case in Calloway County well 8815-3635-6.

The similarity of hydrographs for comparable wells in the Ohio River flood plain (fig. 22) is apparent. The wells in Kenton and Daviess Counties are affected by nearby pumping. The wells in Boyd, Jefferson, and Henderson Counties are in unpumped areas. Boyd County well 8235-3825-1, Kenton County well 8430-3905-15, Jefferson County well 41-16-3, and Daviess County well 8705-3745-4 are near the river. Water-level fluctuations in these wells show the effects of changes of river stage. Water-level fluctuations in Kenton County well 8430-3900-103, Jefferson County well 50-10-2, and Henderson County well 8720-3750-152 (away from the river) show the normal effects of precipitation. Because of no significant river rise and less-than-normal precipitation in 1952, 1953, and 1954, the magnitude of the fluctuations of the water levels has decreased. The amplitude of the water-level fluctuations in the wells near the river in the spring of 1953 and 1954 were from 10 to 15 feet less than those of previous years. The seasonal fluctuations in wells away from the river during 1953 and 1954 were very small, and the downward trends for those years indicate continuing loss of ground-water storage.

Louisville area.--In the Louisville area, the total pumpage of ground water in 1954 was 30.0 mgd (million gallons per day), of which 1.1 mgd was returned through recharge wells. The net withdrawal of 28.9 mgd in 1954 was 0.2 mgd less than in 1953 and about the same as in 1952. Net pumpage in 1954 exceeded natural recharge to the area by 9.6 mgd. Figure 23 shows pumpage since 1937 and changes in storage since 1943. Large withdrawals from storage were associated with the peak pumpages of 1943 and 1944. The excess of recharge over pumpage in 1945 was caused primarily by a major flood of the Ohio River which resulted in an abnormally large infiltration of river water. For the period 1946 through 1952, pumpage and natural recharge were nearly in balance, except in 1950 when above-normal recharge from rainfall reflected the effects of the wettest year of record. The excess of pumpage over natural recharge in 1952, 1953, and 1954 reflected the drought conditions in the Louisville area in that period.

In the Louisville area, changes of water levels during 1954 ranged from a net rise of 3.5 feet in an observation well near the river southwest of the city to a net decline of about 6 feet in the heavily pumped Rubbertown area. Water levels declined an average of 2.38 feet, representing an estimated loss of ground-water storage for the year of about 9.5 mgd. The effects of less-than-normal precipitation and higher-than-normal temperatures for the period 1952 through 1954 were major factors contributing to the decline. There has been no significant river rise since the spring of 1952. The graph of well 50-10-2, figure 24, is typical of those for wells in the unpumped area southwest of the city. The downward trend during the past 2½ years reflecting drought conditions contrasts sharply with the record-high levels which correlated with the wet years of 1950 and 1951.

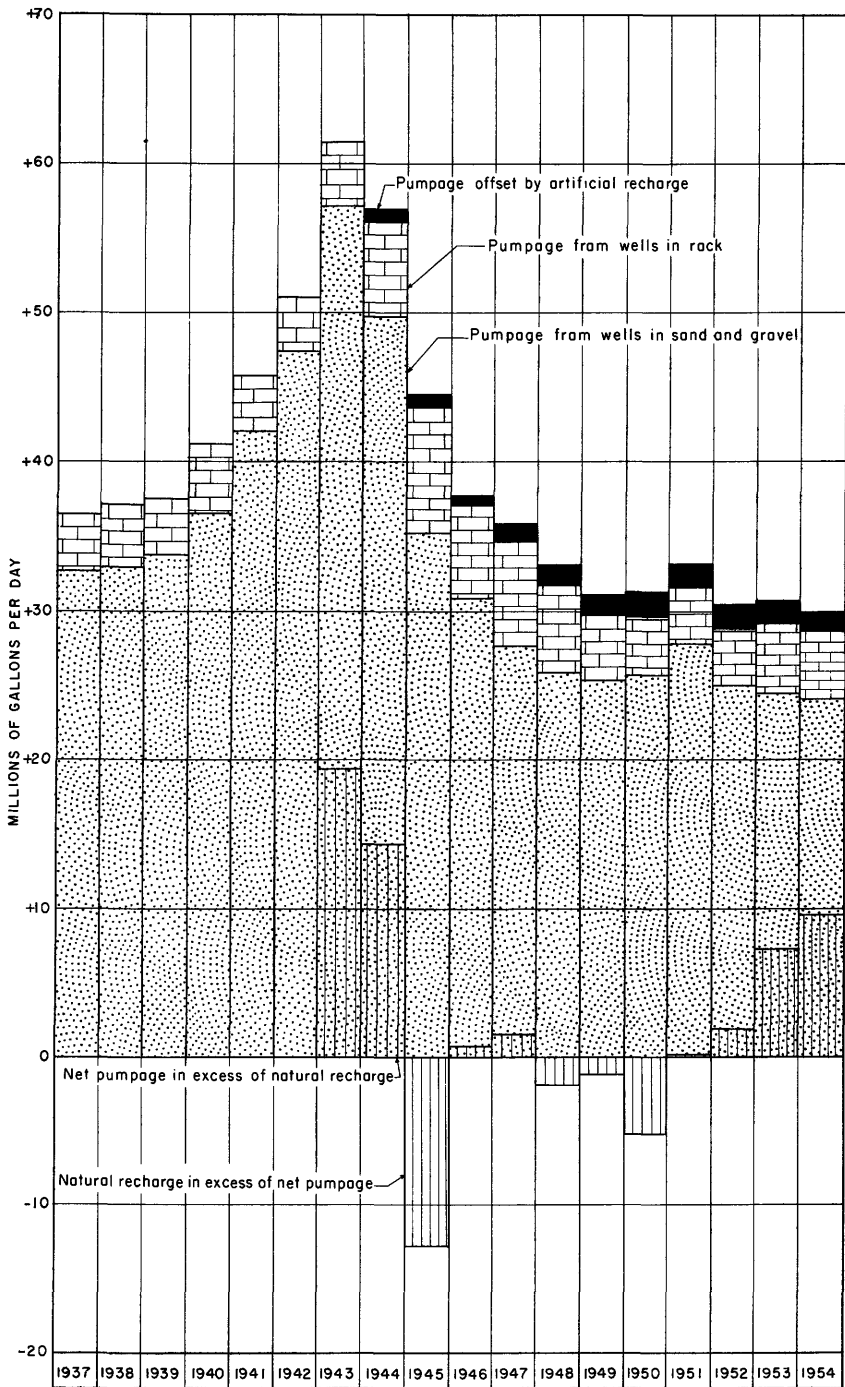


Figure 23. --Pumpage, 1937-54, and changes in storage, 1943-54, in the Louisville, Ky., area.

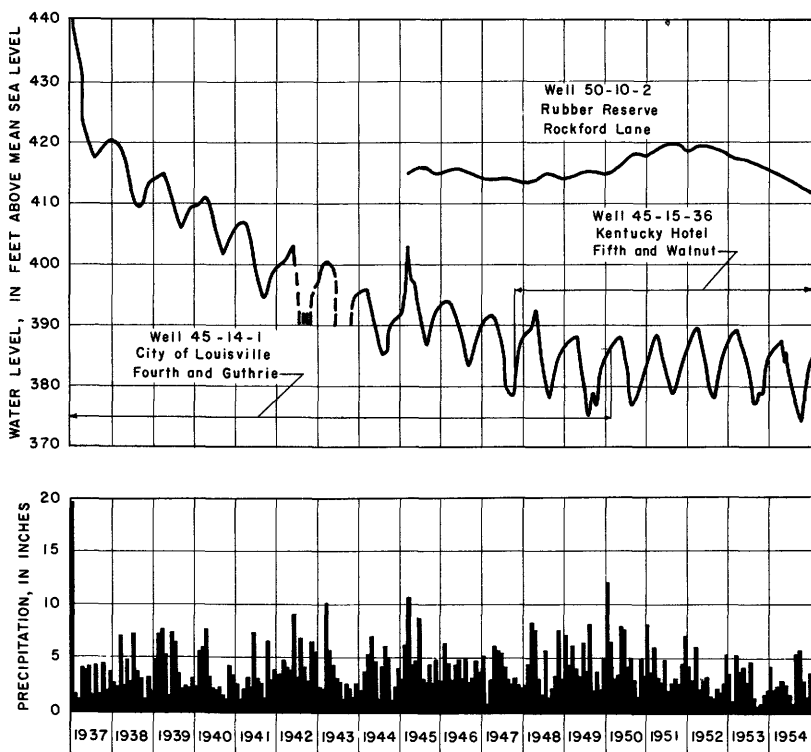


Figure 24. -- Water level and precipitation in downtown area and in unpumped area southwest of Louisville, Ky.

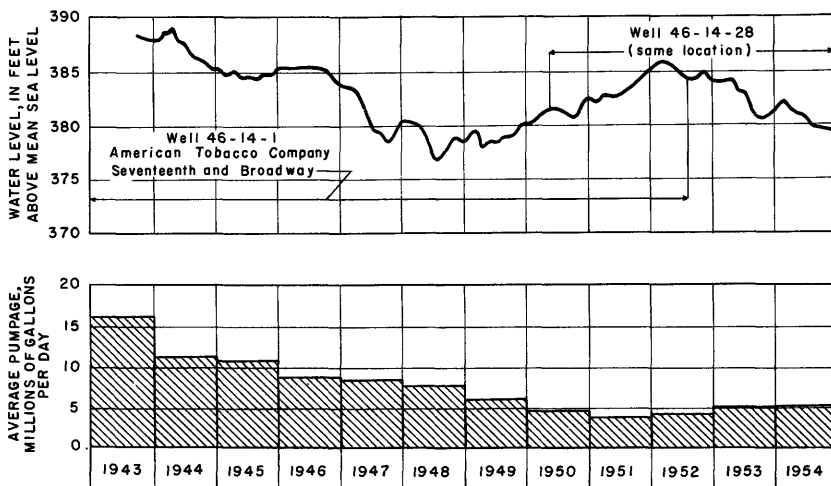


Figure 25. -- Water level and pumpage in west-central part of Louisville, Ky., area, 1943-54.



In the downtown area of Louisville (east of meridian  $85^{\circ}46'$  and north of parallel  $38^{\circ}13'$ ), water levels declined about 1.5 feet during 1954. The graph of well 45-15-36 (fig. 24) is representative of this area in which ground water is pumped for air conditioning. After the 1937 flood, water levels were at record-high stages. After the floodwater receded, a downward trend continued until the low of 1949. From 1950 through 1953, water levels were fairly stable, seasonal recoveries approximately balancing seasonal drawdowns. The low of record in October 1954 indicates less-than-normal recharge to the area.

In the west-central industrial area (west of meridian  $85^{\circ}46'$  and north of parallel  $38^{\circ}13'$ ), water levels fell about 2.5 feet during 1954. The total pumpage in that area in 1954 was about the same as that of 1953. Figure 25 shows the graph of wells 46-14-1 and 46-14-28 as representative of the area and a graph of the pumpage since 1943. The gradual rise of the water table in this area for the period 1949 through 1952 was caused by decreased pumping and above-normal precipitation; conversely, the decline of the water table during the past 2 years was caused by slightly increased pumping and below-normal precipitation.

In the distillery area south of Louisville, water levels declined an average of 2.9 feet in 1954. Figure 26 shows the hydrograph for well 47-12-1 and a graph of the pumpage since 1937. The water-level fluctuations are typical of those in the area. Though the pumpage in that area in 1954 was about the same as in 1950, the water levels in 1954 were, in general, about 5 feet lower than in 1950.

In the Rubbertown area, water levels declined an average of about 2.4 feet during 1954, the fifth consecutive year in which that area has sustained a net loss. In general, the post-war recovery of water levels in wells in the Rubbertown area reached a maximum in 1948 and 1949. Since then, the levels have declined more than halfway to the critical lows of 1944. Figure 27 shows the hydrograph for well 49-13-24 and a graph of pumpage since 1942. The water-level fluctuations are typical of those in the northern part of the Rubbertown area. The sharp reversal of the trend of water levels in wells in the northern part of the Rubbertown area in 1953 was the result of supplementing ground water with river water. In that part of Rubbertown, water levels in wells rose slightly during the year. However, in other parts of the area, water levels continued the downward trend of the past 4 years. Total pumpage for Rubbertown in 1954 was about the same as that of 1953.

A map of the Louisville area showing contours of water level in December 1954 is given in figure 28. The general pattern is similar to that of 1953, except that the cones of depression have expanded somewhat. A large area of depression is indicated in the Rubbertown area and a lesser depression in the central part of the city. The contours indicate infiltration from the river north-east of the city and in the Rubbertown area. In the southwestern part of the area, contours higher than 383 altitude indicate flow toward the river. Figure 29 shows changes in the shape of the water table during 1954. The general decline reflects relatively small natural recharge due to below-normal precipitation in 1952, 1953, and 1954. The dome and depressions southwest of the city indicate a shifting of the effective center of pumping in the Rubbertown area. Figure 30 shows changes in the water table during the 6-year period December 1948 to December 1954. The shaded portion in the Rubbertown area indicates declines greater than 5 feet caused by sustained heavy pumping. The losses of ground-water storage during the past 3 years have more than offset the gains of several previous years.

#### Well-Numbering System

Excepting the Louisville area in Jefferson County, the State has been divided into quadrangles formed by the 5-minute meridians and parallels. Wells inventoried in each of the quadrangles are numbered beginning with 1. Wells are designated by a composite of three numbers; the first indicates the degrees and minutes of longitude, the second the degrees and minutes of latitude, and the third the number of the well in that quadrangle. Thus, well 8715-3650-1 is the first well inventoried in the 5-minute quadrangle west of  $87^{\circ}15'$  longitude and north of  $36^{\circ}50'$  latitude. A similar numbering system is used for wells in the Louisville area, which lies between longitude  $85^{\circ}$  and  $86^{\circ}$  and between latitude  $38^{\circ}$  and  $39^{\circ}$ , except that the quadrangles are bounded by 1-minute meridians and parallels. The well designation omits the degrees, using only minutes of longitude and latitude. Thus, well 45-14-2 is the second well inventoried in the 1-minute quadrangle west of  $85^{\circ}45'$  longitude and north of  $38^{\circ}14'$  latitude. Location of wells in the Louisville area included in the water-level report is shown on figure 20.

#### Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

##### Allen County

8610-3640-5. C. Braley. Lat.  $36^{\circ}44'$ , long.  $86^{\circ}11'$ . Drilled unused artesian well in limestone of Fort Payne chert, diameter 6 inches, depth 118 feet. Highest water level 17.35 below lsd, Mar. 23, 1952; lowest 28.36 below lsd, Sept. 20, 1954. Records available: 1951-54.

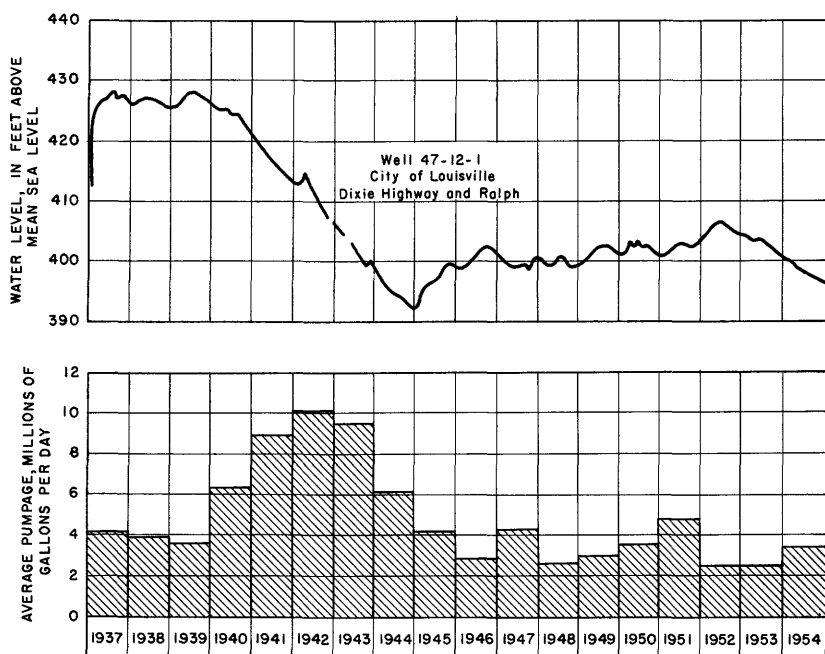


Figure 26. --Water level in well 47-12-1 and pumpage in south distillery area, Louisville, Ky., 1937-54.

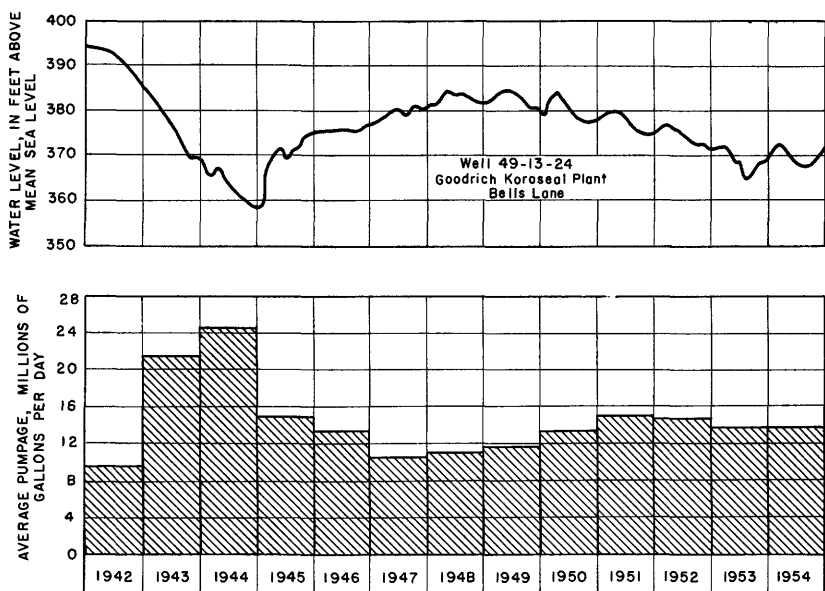


Figure 27. --Water level in well 49-13-24 and pumpage in Rubbertown area, southwest of Louisville, Ky., 1942-54.

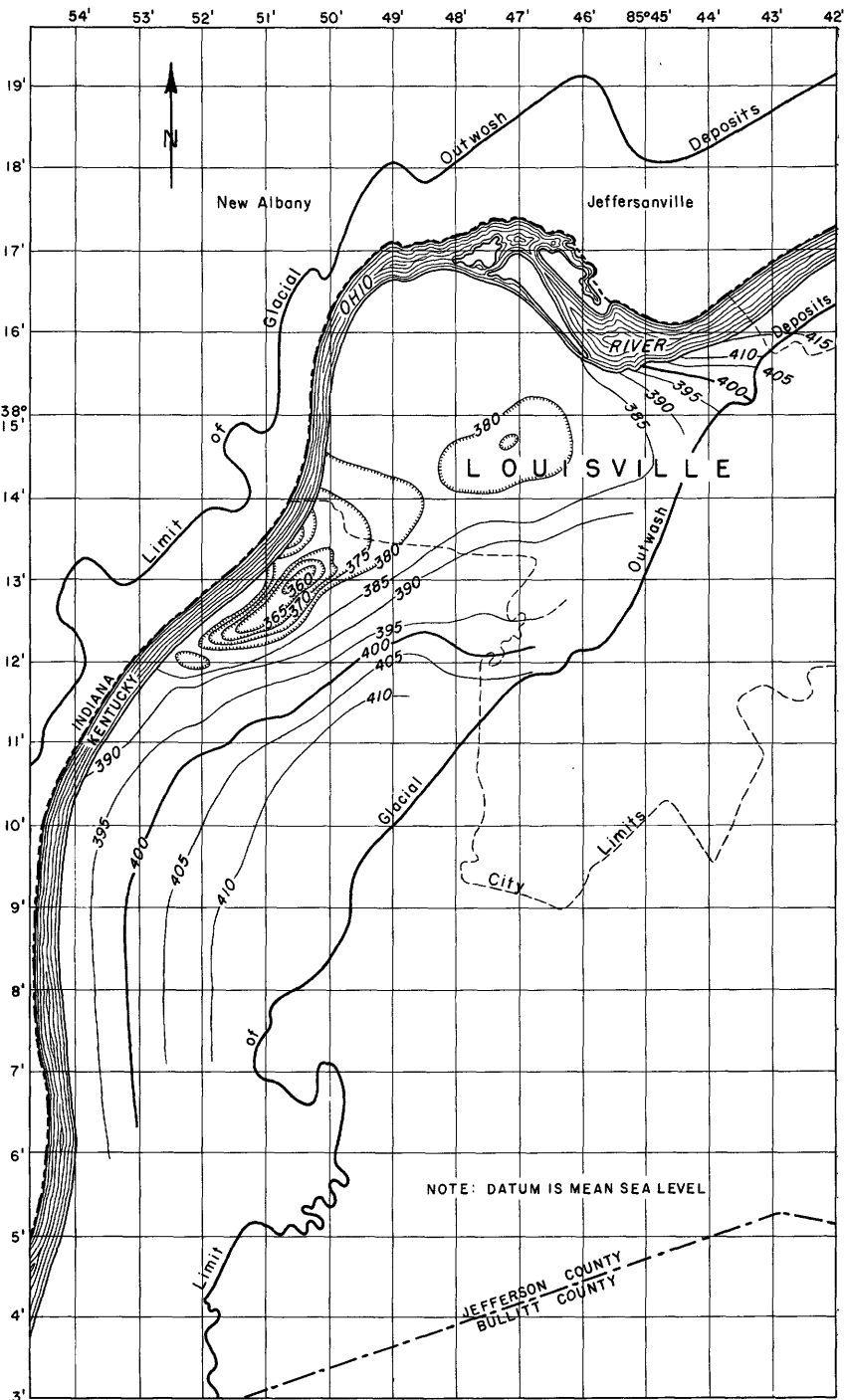


Figure 28. --Contours of water level in the Louisville, Ky., area, December 1954.

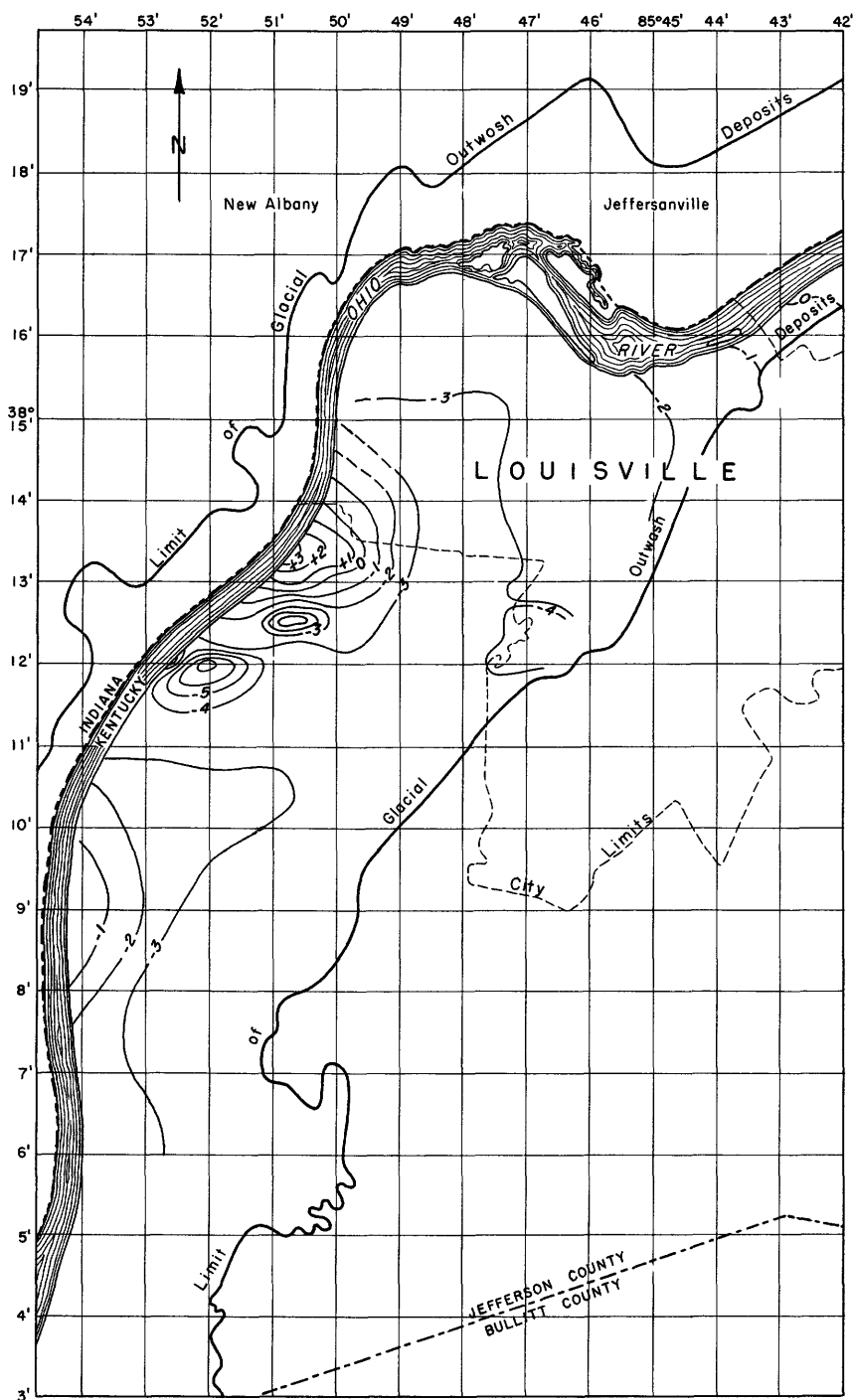


Figure 29. --Changes in water level in the Louisville, Ky., area, 1953-54.

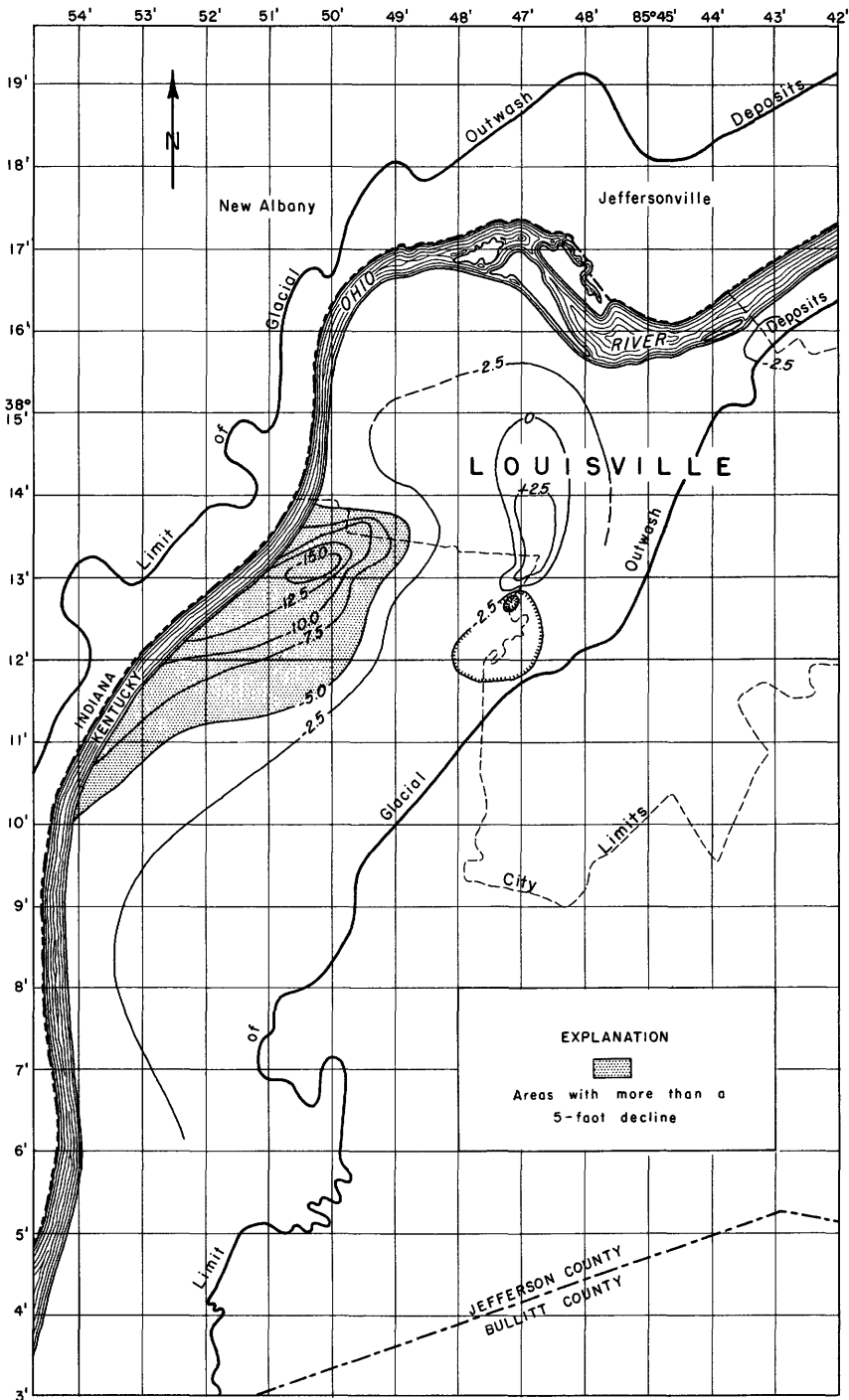


Figure 30. --Changes in water level in the Louisville, Ky., area, 1948-54.

8610-3640-5--Continued.

Daily noon water level from recorder graph\*

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Dec.
1	.....	24.15	.....	.....	27.35	27.92	.....	28.32	.....
2	27.31	25.55	.....	.....	27.40	27.87	.....	28.31	.....
3	27.28	26.93	h27.79	h27.78	27.35	.....	.....	28.31	.....
4	27.51	.....	.....	.....	27.69	.....	28.19	28.31	.....
5	27.81	.....	.....	.....	27.92	.....	28.14	28.31	.....
6	27.81	.....	.....	.....	27.98	.....	28.15	28.31	.....
7	27.96	.....	.....	.....	27.87	.....	28.18	28.27	.....
8	27.70	.....	.....	.....	27.86	.....	28.07	28.31	.....
9	27.60	.....	.....	.....	27.87	.....	28.14	28.31	.....
10	27.75	.....	.....	.....	27.93	27.96	28.16	28.25	.....
11	27.97	.....	.....	.....	27.93	27.95	28.22	28.32	.....
12	28.11	.....	.....	.....	27.86	27.97	.....	28.33	.....
13	27.93	.....	.....	.....	27.84	27.94	.....	28.32	.....
14	27.89	.....	.....	.....	27.79	28.00	.....	.....	.....
15	27.94	.....	.....	.....	27.82	28.00	.....	28.31	.....
16	27.81	.....	.....	.....	27.69	27.87	.....	28.33	27.70
17	27.39	.....	.....	.....	27.75	27.96	.....	.....	.....
18	26.97	.....	.....	27.34	27.87	28.06	.....	.....	27.65
19	27.02	.....	.....	27.36	27.91	28.14	.....	.....	27.90
20	24.18	.....	.....	27.39	27.88	28.08	.....	28.27	28.01
21	.....	.....	.....	27.55	27.82	28.06	28.27	.....	27.96
22	.....	.....	.....	27.64	27.83	28.10	28.34	.....	.....
23	.....	.....	.....	27.62	27.75	28.07	28.33	.....	.....
24	26.66	.....	.....	27.63	27.78	28.10	28.34	.....	28.14
25	26.86	.....	.....	27.61	.....	28.16	.....	.....	28.17
26	27.40	.....	.....	27.57	28.07	28.15	28.21	.....	28.17
27	27.31	.....	.....	27.56	28.09	28.02	28.26	.....	28.10
28	24.96	.....	.....	27.50	28.07	28.03	28.31	.....	.....
29	.....	.....	.....	27.73	28.01	28.17	28.28	.....	.....
30	.....	.....	.....	27.76	27.98	28.25	28.24	.....	.....
31	.....	.....	.....	27.68	.....	.....	28.30	.....	.....

\* No record for January, October, and November.

h Tape measurement.

Boyd County

8235-3825-1. City of Ashland. 40th St. and U. S. Highway 23 and 60, Ashland. Lat. 38°27', long. 82°36'. Drilled unused water-table well in sand and gravel, diameter 6 inches, depth 58 feet, reported cased to 62. Highest water level 25.00 below lsd, Feb. 8, 1952; lowest 44.13 below lsd, Jan. 12-13, 1954. Records available: 1951-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.01	43.16	42.89	40.61	38.84	.....	40.89	.....	.....	42.99	41.09	41.89
2	44.00	43.09	42.95	40.42	38.70	.....	40.93	.....	42.53	42.99	41.09	41.90
3	44.07	43.07	42.77	40.33	38.62	.....	40.94	41.77	42.53	42.99	41.16	41.88
4	44.00	43.09	42.70	40.27	38.59	39.70	40.98	41.85	42.57	42.99	41.16	41.89
5	44.01	43.12	42.42	40.11	38.53	39.73	41.00	41.85	42.58	42.99	41.20	41.93
6	44.07	43.14	42.08	40.07	38.49	39.79	41.06	41.90	42.59	43.00	41.28	42.00
7	44.06	43.20	41.71	40.10	38.48	39.82	41.09	41.93	42.60	43.06	41.32	42.02
8	44.02	43.13	41.57	40.16	38.49	39.88	41.15	41.92	42.63	43.04	41.38	41.99
9	44.03	43.12	41.30	40.21	38.43	39.93	41.19	41.91	42.66	43.00	41.43	41.90
10	44.06	43.18	41.23	40.17	38.45	39.98	41.22	41.96	42.66	43.00	41.48	41.99
11	44.05	43.22	41.23	40.13	38.43	40.03	41.25	41.99	42.68	42.98	41.49	42.04
12	44.11	43.31	41.22	40.15	38.44	40.08	41.26	42.03	42.74	42.99	41.50	42.04
13	44.10	43.24	41.20	40.14	38.46	40.14	41.30	42.06	42.75	43.01	41.53	42.02
14	44.02	43.20	41.21	40.10	38.48	40.20	41.34	42.07	42.75	43.01	41.55	42.02
15	44.02	43.22	41.19	40.13	38.53	40.23	41.38	42.09	42.75	42.97	41.58	42.02
16	44.01	43.23	41.11	40.03	38.58	40.32	41.44	42.12	42.76	42.97	41.59	42.08
17	44.10	43.23	40.95	40.10	38.63	40.36	41.47	42.14	42.78	42.98	41.62	41.93
18	43.97	43.30	40.84	40.02	38.66	40.40	41.49	42.17	42.79	42.64	41.66	41.80
19	43.91	43.22	40.70	39.92	38.71	40.42	41.52	42.18	42.79	42.21	41.67	41.76
20	43.80	43.19	40.71	39.67	38.79	40.45	41.57	42.20	42.81	41.51	41.67	41.66

## KENTUCKY, CARROLL COUNTY

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8235-3825-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	43.82	43.17	40.87	39.33	38.87	40.50	41.61	42.24	42.84	40.84	41.74	41.50
22	43.80	43.20	40.89	39.06	38.94	40.53	41.63	42.28	42.87	40.52	41.78	41.30
23	43.80	43.12	40.85	38.89	39.00	40.59	41.61	42.29	42.91	40.44	41.79	41.08
24	43.72	43.03	40.88	38.81	39.06	40.63	41.48	42.31	42.92	40.38	41.76	39.96
25	43.68	43.00	40.82	38.79	39.12	40.65	41.39	42.32	42.91	40.36	.....	41.00
26	43.52	42.95	40.89	38.72	39.20	40.70	.....	42.33	42.91	40.38	.....	39.90
27	43.38	42.86	40.93	38.71	39.23	40.75	.....	42.37	42.92	40.48	.....	.....
28	43.41	42.85	40.85	38.80	39.28	40.78	.....	42.40	42.94	40.69	.....	.....
29	43.32		40.80	38.86	39.34	40.83	.....	42.41	42.95	40.77	.....	.....
30	43.30		40.71	38.89	39.43	40.85	.....	42.43	42.99	40.92	42.00	.....
31	43.30		40.65		39.44		.....	.....		41.04		.....

## Calloway County

8815-3635-6. Joe Parks. 15th and Main Sts., Murray. Drilled unused artesian well in sand of Ripley formation, diameter 12 inches, depth 345 feet, screen 290-328, 330-344. Land-surface datum is 548.97 feet above msl. Highest water level 123.23 below lsd, Mar. 3, 1953, Feb. 27, 1954; lowest 127.30 below lsd, Aug. 5, 1948. Records available: 1948-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	123.40	123.45	123.26	123.56	123.56	123.48	124.20	124.35	124.51	124.24	124.00	124.05
2	123.33	123.44	123.29	123.55	123.49	123.48	124.22	124.23	124.49	124.20	124.10	124.01
3	123.47	123.44	123.45	123.60	123.50	123.39	124.27	124.29	124.46	124.11	124.10	123.93
4	123.39	123.38	123.53	123.52	123.56	123.47	124.10	124.33	124.49	124.10	124.04	123.94
5	123.49	123.44	123.51	123.52	123.54	123.52	123.98	124.37	124.51	124.15	124.01	123.70
6	123.57	123.49	123.49	123.47	123.52	123.49	124.02	124.35	124.46	124.25	124.05	123.86
7	123.58	123.50	123.43	123.50	123.49	123.53	124.02	124.34	124.37	124.29	124.00	123.86
8	123.57	123.37	123.40	123.62	123.50	123.58	124.07	124.24	124.38	124.29	124.05	123.78
9	123.54	123.35	123.39	123.60	123.49	123.60	124.09	124.26	124.37	124.24	124.11	123.82
10	123.47	123.38	123.32	123.65	123.50	123.64	124.14	124.31	124.37	124.12	124.15	123.89
11	123.44	123.55	123.29	123.59	123.53	123.66	124.11	124.41	124.37	124.09	124.18	123.89
12	123.59	123.63	123.26	123.67	123.54	123.69	124.04	124.44	124.33	124.12	124.17	123.74
13	123.59	123.53	123.36	123.63	123.54	123.69	124.14	124.40	124.30	124.17	124.13	123.75
14	123.49	123.42	123.52	123.57	123.54	123.68	124.25	124.42	124.33	124.13	124.06	123.73
15	123.40	123.47	123.52	123.57	123.55	123.75	124.32	124.43	124.37	124.14	124.02	123.79
16	123.44	123.46	123.59	123.49	123.50	123.78	124.35	124.40	124.40	124.14	123.96	123.80
17	123.52	123.48	123.59	123.55	123.48	123.83	124.36	124.46	124.46	124.14	124.02	123.76
18	123.44	123.44	123.51	123.49	123.56	123.86	124.35	124.44	124.40	124.20	123.99	123.72
19	123.43	123.42	123.36	123.54	123.58	123.87	124.30	124.48	124.37	124.19	123.96	123.73
20	123.35	123.35	123.47	123.64	123.64	123.83	124.39	124.38	124.27	124.16	123.98	123.68
21	123.42	123.41	123.46	123.66	123.63	123.81	124.39	124.35	124.25	124.16	123.92	123.70
22	123.45	123.42	123.43	123.59	123.63	123.84	124.29	124.33	124.29	124.21	123.94	123.67
23	123.41	123.38	123.47	123.53	123.62	123.91	124.26	124.35	124.30	124.22	123.95	123.65
24	123.42	123.37	123.49	123.56	123.66	123.96	124.24	124.47	124.30	124.17	123.98	123.71
25	123.41	123.31	123.42	123.56	123.68	123.96	124.22	124.49	124.28	124.14	123.89	123.66
26	123.41	123.38	123.46	123.54	123.68	123.99	124.25	124.50	124.24	124.14	123.86	123.63
27	123.49	123.24	123.40	123.56	123.66	124.02	124.30	124.50	124.19	124.15	123.78	123.60
28	123.56	123.25	123.38	123.52	123.57	124.01	124.34	124.55	124.22	124.10	123.72	123.54
29	123.53		123.29	123.49	123.53	124.10	124.38	124.51	124.28	124.04	123.94	123.40
30	123.57		123.32	123.54	123.54	124.15	124.48	124.44	124.27	124.05	124.02	123.58
31	123.56		123.40		123.53		124.49	124.46		124.04		123.54

## Carroll County

8510-3840-7. Schenley Distillers, Inc. Second and Seminary Sts., Carrollton. Lat. 38°40', long. 85°11'. Drilled unused water-table well in sand and gravel, diameter 8 inches, depth 110 feet, screen 96-110. Land-surface datum is about 550 feet above msl. Highest water level 12.60 below lsd, Mar. 25-26, 1952; lowest 37.33 below lsd, Jan. 12, 1954. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.12	34.47	.....	.....	31.52	.....	36.27	36.44	36.62	37.08	34.78	35.75
2	37.06	34.35	.....	.....	31.20	.....	36.35	36.35	36.66	37.13	34.84	35.68
3	37.23	34.29	.....	.....	30.80	.....	36.29	36.50	36.72	37.12	34.67	35.51
4	37.10	34.39	.....	.....	30.38	.....	36.29	36.41	36.69	37.08	34.91	35.39
5	37.13	35.78	32.85	.....	30.04	.....	36.29	36.38	36.87	37.00	35.20	35.41

## 8510-3840-7--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	37.22	35.75	31.35	.....	30.06	.....	36.27	36.25	36.87	36.84	35.30	35.88
7	37.20	35.79	30.12	.....	30.24	.....	36.33	36.20	36.86	36.86	35.38	35.83
8	37.17	35.79	29.66	32.22	30.57	.....	36.46	35.90	36.95	36.79	35.47	35.70
9	37.11	36.10	29.62	32.64	30.61	.....	36.53	35.81	37.00	36.71	35.53	35.75
10	37.26	36.15	30.11	32.83	30.47	35.43	36.51	35.96	36.96	36.67	35.56	35.92
11	37.30	36.20	30.83	32.87	30.48	35.43	36.46	36.24	37.00	36.67	35.55	35.90
12	37.30	.....	31.47	32.83	30.68	35.39	36.45	36.15	37.08	36.68	35.69	35.74
13	37.30	.....	31.94	32.64	31.11	35.33	36.46	36.39	37.11	36.83	35.86	35.50
14	37.18	.....	32.20	32.72	31.27	35.08	36.51	36.54	37.11	36.96	35.94	35.38
15	37.20	.....	31.96	32.97	31.62	35.11	36.57	36.58	37.06	36.83	36.07	35.32
16	37.19	.....	.....	33.01	32.17	35.63	36.65	36.64	37.08	36.79	.....	35.38
17	37.03	.....	.....	32.60	32.70	35.36	36.53	36.71	37.13	36.78	.....	35.10
18	36.43	.....	.....	31.72	32.84	35.22	36.41	36.62	37.18	36.61	.....	34.78
19	36.26	.....	.....	31.20	32.82	35.00	36.24	36.55	37.15	36.56	.....	34.45
20	35.72	.....	.....	30.35	33.07	34.94	36.14	36.50	37.10	35.78	.....	33.93
21	35.55	.....	.....	29.28	33.38	34.83	36.24	36.65	37.00	34.55	.....	33.50
22	35.33	.....	.....	28.46	33.63	35.05	35.82	36.54	36.75	32.55	.....	33.00
23	35.40	.....	.....	28.24	34.10	35.61	35.30	36.41	36.81	30.17	.....	32.62
24	35.30	.....	.....	28.42	34.17	35.63	34.53	36.31	36.80	30.45	.....	32.59
25	35.08	.....	.....	28.90	34.40	35.63	34.01	36.45	36.71	31.19	.....	32.58
26	34.51	.....	.....	29.52	35.08	35.84	33.92	36.59	36.72	32.11	.....	32.85
27	34.12	.....	.....	30.02	.....	35.94	34.54	36.42	36.85	32.95	.....	33.15
28	34.09	.....	.....	30.59	.....	36.06	35.96	36.40	36.90	34.21	.....	33.50
29	34.22	.....	.....	31.20	.....	36.12	36.36	36.15	36.94	34.89	.....	33.38
30	34.56	.....	.....	31.62	.....	36.19	36.40	36.08	37.05	34.72	36.11	33.30
31	34.68	.....	.....	.....	.....	.....	36.41	36.38	.....	34.78	.....	32.80

## Carter County

8255-3815-8. J. E. Newland. Lat. 38°19', long. 82°57'. Drilled unused water-table well in limestone of Mississippian age, diameter 10 inches, depth 109 feet. Highest water level 8.50 below lsd, Feb. 4, 1952; lowest 14.21 below lsd, Dec. 18, 1953. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.75	12.83	12.21	11.57	11.34	11.22	.....	.....	.....	.....	.....	.....
2	13.73	12.66	12.41	11.45	11.15	11.29	h11.40	.....	h10.90	.....	.....	.....
3	13.86	12.57	12.11	11.60	11.07	11.13	.....	h11.17	.....	.....	.....	.....
4	13.83	12.50	.....	11.61	.....	11.34	.....	.....	.....	.....	.....	.....
5	13.55	12.65	12.13	11.55	.....	.....	.....	.....	.....	.....	.....	.....
6	13.65	12.73	12.06	11.39	e11.00	.....	.....	.....	.....	.....	.....	.....
7	13.80	12.96	11.90	11.42	10.90	.....	.....	.....	.....	.....	.....	.....
8	13.82	12.56	11.94	11.54	10.90	.....	.....	.....	.....	.....	.....	.....
9	13.66	12.45	11.70	11.72	10.77	.....	.....	.....	.....	.....	.....	.....
10	13.75	12.42	11.58	11.61	10.90	.....	.....	.....	.....	.....	.....	.....
11	13.62	12.58	11.58	11.55	10.84	.....	.....	.....	.....	.....	.....	.....
12	13.90	13.01	11.57	11.75	10.91	.....	.....	.....	.....	.....	.....	.....
13	14.13	12.87	11.36	11.57	10.94	.....	.....	.....	.....	.....	.....	.....
14	13.85	12.68	11.38	11.38	11.01	.....	.....	.....	.....	.....	.....	.....
15	13.63	12.66	11.55	11.36	11.07	.....	.....	.....	.....	.....	.....	.....
16	13.55	12.53	11.75	11.11	11.01	.....	.....	.....	.....	.....	.....	.....
17	13.82	12.73	11.70	11.32	11.05	.....	.....	.....	.....	.....	.....	.....
18	13.56	12.85	11.51	11.24	11.02	.....	.....	.....	.....	.....	.....	.....
19	13.54	12.76	11.23	11.32	11.08	.....	.....	.....	.....	.....	.....	.....
20	13.37	12.50	11.37	11.41	11.12	.....	.....	.....	.....	.....	.....	.....
21	13.55	12.46	11.54	11.32	11.25	.....	.....	.....	.....	.....	.....	.....
22	13.40	12.65	11.55	11.28	11.29	.....	.....	.....	.....	.....	.....	.....
23	13.40	12.52	11.51	11.32	11.34	.....	.....	.....	.....	.....	.....	.....
24	13.27	12.36	11.51	11.35	11.32	.....	.....	.....	.....	.....	.....	.....
25	13.26	12.30	11.36	11.35	11.27	.....	.....	.....	.....	.....	.....	.....
26	13.15	12.33	11.64	11.25	11.35	.....	.....	.....	.....	.....	.....	.....
27	13.12	12.28	11.69	11.11	11.32	.....	.....	.....	.....	.....	.....	.....
28	13.27	12.17	11.49	11.23	11.19	.....	.....	.....	.....	h10.54	.....	.....
29	13.05	.....	11.41	11.24	11.22	.....	.....	.....	.....	.....	.....	.....
30	13.04	.....	11.45	11.34	11.45	.....	.....	.....	h10.92	.....	h10.74	.....
31	13.12	.....	11.41	.....	11.42	.....	.....	.....	.....	.....	.....	.....

e Estimated.

h Tape measurement.



## KENTUCKY, DAVIESS COUNTY

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Christian County

8725-3650-74. Western Kentucky State Hospital. Lat. 36°51', long. 87°27'. Drilled unused water-table well in Ste. Genevieve limestone, diameter 8 inches, depth 85 feet. Highest water level 3.62 below lsd, May 17, 1953; lowest 17.70 below lsd, Sept. 21, 1951. Records available: 1950-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.84	11.67	11.67	13.42	14.89	15.90	16.74	16.82	16.78	.....	.....	16.85
2	16.88	11.79	11.78	13.77	15.22	16.31	16.76	16.86	16.80	.....	.....	16.89
3	16.90	11.85	11.77	14.24	15.30	12.25	16.76	16.87	16.83	.....	.....	16.90
4	16.90	12.41	11.80	14.66	15.53	13.61	16.59	16.89	16.85	.....	.....	16.90
5	16.93	12.89	11.83	15.01	15.58	14.57	16.77	16.89	16.82	.....	.....	14.00
6	16.95	13.36	11.89	12.04	15.69	15.31	16.79	16.89	16.87	.....	.....	.....
7	16.93	13.87	12.06	12.07	.....	15.70	16.80	16.90	16.86	.....	.....	.....
8	16.92	14.21	12.39	12.44	11.73	16.01	14.35	16.91	16.85	.....	.....	.....
9	16.93	14.65	12.68	12.72	11.84	15.73	16.18	16.92	16.80	.....	.....	.....
10	12.90	15.00	12.95	13.04	11.89	16.06	16.56	16.95	16.87	.....	.....	.....
11	15.61	15.44	13.31	12.50	12.00	16.22	16.54	16.90	16.91	.....	.....	14.40
12	16.32	15.70	13.80	12.73	12.37	16.31	16.72	16.90	16.90	.....	16.77	11.00
13	16.55	15.72	14.21	12.90	12.70	16.40	16.70	16.77	16.89	.....	16.77	11.02
14	16.64	15.84	14.71	12.70	13.09	16.40	16.68	16.94	16.90	16.00	16.78	11.31
15	11.60	15.85	15.21	13.10	13.49	16.48	11.50	16.93	16.90	.....	16.79	11.54
16	11.00	10.67	15.32	7.47	13.90	16.50	14.28	16.95	16.91	.....	16.72	11.67
17	11.38	11.60	15.42	10.25	14.43	16.52	15.68	11.64	16.92	.....	16.78	11.73
18	11.59	11.72	15.49	10.90	14.74	16.54	16.27	13.85	16.90	.....	16.79	11.88
19	11.71	11.83	15.24	11.29	15.17	16.57	16.52	15.11	16.90	.....	16.78	12.10
20	11.98	11.21	15.60	11.58	15.25	16.61	16.60	15.90	15.40	.....	16.80	12.54
21	7.22	11.61	15.77	11.73	15.48	16.61	16.68	16.37	11.85	.....	16.86	12.99
22	10.49	11.68	15.83	11.87	15.59	16.66	14.90	16.48	13.33	.....	16.87	13.35
23	10.76	11.77	15.99	11.95	15.63	16.69	15.99	16.55	14.54	.....	16.87	13.90
24	11.08	11.82	12.00	12.21	15.77	16.66	16.46	16.62	15.19	.....	16.87	14.48
25	11.30	11.88	11.62	12.60	15.91	16.68	16.60	16.68	16.20	.....	16.88	14.95
26	11.52	11.99	11.84	12.98	16.06	16.70	16.69	16.71	16.46	.....	16.90	15.43
27	11.61	12.19	11.90	13.28	16.10	16.71	16.73	16.72	16.58	.....	16.73	15.54
28	11.43	11.52	11.95	13.51	16.10	16.72	16.72	16.78	16.62	.....	16.81	10.02
29	11.38		12.10	13.92	16.16	16.71	16.83	16.72	11.00	.....	16.85	9.90
30	11.39		12.50	14.45	16.24	16.73	16.86	16.74	12.30	.....	16.87	10.73
31	11.53		12.83		16.30		16.86	16.70		.....		11.03

Daviess County

8705-3745-4. Fleischmann Distilling Corp. Lat. 37°47', long. 87°08'. Drilled unused artesian and water-table well in alluvium of Pleistocene and Recent age, diameter 12 inches, depth 118 feet, screen 85-105. Land-surface datum is 403.35 feet above msl. Highest water level 23.47 below lsd, Feb. 8, 1952; lowest 57.19 below lsd, Oct. 15, 1953. Records available: 1950-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.92	49.62	51.32	49.05	47.89	54.27	54.37	52.43	53.22	54.71	51.15	55.18
2	53.97	49.69	51.08	48.88	48.29	54.56	54.52	52.72	53.39	54.99	51.94	54.95
3	54.02	49.80	51.00	48.63	48.47	54.77	.....	52.89	53.55	55.11	52.42	54.63
4	54.06	49.92	50.97	48.30	48.65	54.69	.....	53.04	53.70	55.13	e52.60	54.68
5	54.09	50.08	50.83	47.95	48.88	54.66	.....	53.14	53.80	55.63	52.60	54.39
6	54.14	50.34	50.63	47.60	49.10	54.67	.....	53.21	53.85	55.84	e52.58	54.07
7	54.21	50.80	50.14	47.30	48.74	54.57	e54.66	53.18	53.92	.....	e52.86	54.22
8	54.23	51.20	49.29	47.16	48.72	54.98	54.85	53.06	54.01	55.92	53.44	54.28
9	54.26	51.52	48.14	47.24	48.67	55.32	54.96	52.94	54.08	55.32	53.94	54.30
10	54.28	51.76	47.05	47.40	48.32	55.40	55.07	52.80	54.16	55.39	54.23	54.12
11	54.26	52.02	46.24	47.65	48.64	.....	.....	52.68	54.24	.....	54.27	54.19
12	e54.25	52.25	45.84	48.02	48.85	55.17	54.73	52.77	54.29	.....	54.15	54.13
13	54.26	52.41	45.79	48.67	48.70	55.15	54.56	52.89	54.33	.....	54.51	53.89
14	54.17	.....	46.06	e49.20	48.68	54.55	54.55	53.00	54.35	.....	54.55	53.88
15	54.08	.....	46.51	49.25	49.29	54.23	54.50	53.14	54.59	55.74	54.42	53.86
16	54.02	.....	46.95	49.35	49.64	54.32	54.42	53.25	54.65	55.64	54.79	53.76
17	54.01	.....	47.23	.....	49.55	54.75	54.27	.....	54.67	55.45	55.10	53.41
18	53.86	.....	47.27	.....	49.79	54.63	54.12	.....	54.69	55.12	55.10	53.57
19	53.61	.....	47.13	50.16	50.39	54.80	53.99	53.58	54.73	.....	56.00	53.41
20	53.25	.....	47.05	e49.92	50.56	54.45	53.97	53.63	54.73	.....	55.27	53.00

## 8705-3745-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	52.85	.....	47.06	e49.67	50.86	54.20	53.88	53.61	54.50	.....	55.31	52.75
22	52.38	52.45	47.11	.....	51.33	54.56	53.63	53.58	54.21	53.23	55.20	52.36
23	51.91	52.32	47.21	48.67	51.48	54.90	53.39	53.53	53.96	52.09	55.51	51.71
24	51.45	52.17	47.43	47.66	51.60	55.07	53.07	.....	53.84	50.46	55.68	51.52
25	51.11	52.02	47.78	47.19	52.04	54.99	52.63	.....	53.79	49.02	55.62	51.33
26	50.89	51.89	48.21	46.41	52.64	54.95	52.12	53.42	53.88	48.50	55.32	50.69
27	50.72	51.71	48.53	46.61	52.83	54.55	51.59	53.52	53.98	48.43	55.46	50.18
28	50.48	51.54	48.72	47.01	53.24	54.33	51.15	53.48	54.08	48.52	55.24	50.44
29	.....	.....	48.86	47.26	53.67	54.06	51.18	53.37	54.30	48.71	54.96	50.30
30	.....	.....	48.89	47.37	53.82	54.25	51.58	53.27	54.53	49.69	55.15	50.13
31	.....	.....	48.99	.....	53.87	.....	52.03	53.20	.....	50.64	.....	50.49

e Estimated.

8705-3745-11. Owensboro Municipal Utilities. 1531 East Fourth St., Owensboro. Drilled unused artesian and water-table well in alluvium of Pleistocene and Recent age, diameter 12 inches, depth 104 feet. Highest water level 26.0 below lsd, Feb. 8, 1952; lowest 55.72 below lsd, July 29, 1952. Records available: 1951-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.75	49.96	51.82	50.27	49.49	49.01	50.62	49.87	50.77	51.05	48.72	51.56
2	48.70	51.73	53.11	49.58	48.05	49.61	49.39	49.67	50.87	50.59	50.27	50.64
3	48.52	53.91	52.44	47.40	48.55	49.05	48.83	51.22	51.24	49.68	49.74	50.00
4	48.45	51.97	52.67	46.33	49.92	48.80	48.19	50.82	51.04	49.65	50.74	50.00
5	51.12	52.91	52.87	.....	49.51	48.01	47.54	50.29	49.97	52.27	50.62	47.10
6	50.92	52.49	50.60	49.40	49.02	45.53	48.83	50.57	49.91	51.77	49.95	47.10
7	50.99	50.29	47.87	49.38	48.87	45.49	49.43	51.17	49.68	51.59	48.40	51.09
8	50.97	50.09	47.16	49.45	47.12	49.05	49.28	49.57	50.42	50.81	49.51	51.14
9	50.49	50.17	47.39	49.47	46.49	49.59	49.26	49.49	51.00	51.57	50.79	51.15
10	49.54	50.52	45.91	49.48	46.57	49.64	49.97	50.29	50.87	48.15	50.73	51.30
11	49.49	52.57	47.37	47.37	50.79	51.12	47.67	50.97	50.09	48.09	50.95	50.05
12	52.85	52.83	47.97	49.89	46.98	51.59	47.61	49.67	48.71	51.14	50.89	49.03
13	53.17	50.91	48.83	52.47	49.78	47.92	52.17	49.64	48.54	51.70	50.69	49.74
14	53.11	50.31	48.11	52.05	49.35	49.07	51.99	50.12	51.52	51.87	49.00	51.07
15	52.82	50.23	48.23	51.57	50.56	52.00	51.20	48.67	50.92	51.98	48.57	49.80
16	51.72	51.47	52.10	50.77	48.47	52.77	50.22	47.87	51.90	51.50	50.14	50.10
17	51.02	50.31	49.71	50.75	48.49	51.69	51.17	48.52	51.90	51.02	50.73	51.40
18	50.85	52.16	49.68	47.97	50.10	51.69	50.40	51.12	48.66	49.95	50.76	51.14
19	53.17	50.59	48.97	47.59	50.57	51.37	50.22	50.71	49.50	52.21	50.53	49.44
20	53.17	50.31	48.67	49.67	50.29	48.10	52.87	50.64	49.97	51.17	50.56	50.03
21	54.27	49.01	47.42	49.32	50.32	48.08	53.65	51.47	51.15	48.53	48.84	52.31
22	53.65	49.04	47.42	46.94	50.13	52.17	50.72	49.87	51.02	45.34	49.69	51.70
23	49.97	52.69	49.91	44.67	48.45	50.97	50.54	49.77	50.97	44.07	50.62	51.42
24	48.71	52.74	49.67	44.42	48.40	52.01	51.34	51.02	50.96	41.82	49.38	51.20
25	49.91	52.55	49.63	43.02	51.00	52.37	50.69	52.35	50.61	41.77	49.64	50.13
26	53.27	52.57	49.73	42.99	50.11	51.89	50.37	52.27	48.92	46.27	49.51	48.87
27	52.77	52.07	48.94	45.43	50.26	50.67	53.67	52.62	49.07	48.21	50.53	49.57
28	52.14	51.23	48.48	46.39	49.71	49.60	53.49	51.77	51.01	49.60	48.73	51.65
29	52.02	.....	48.44	47.19	48.58	51.70	53.71	50.17	51.07	50.91	48.40	52.30
30	51.95	.....	50.97	49.72	47.72	51.29	53.30	50.10	51.13	49.17	50.62	52.35
31	50.01	.....	51.35	.....	47.41	.....	52.67	50.42	.....	48.72	.....	51.02

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	49.77	52.97	54.74	52.19	51.07	49.61	52.48	52.67	51.27	52.92	50.96	51.95
2	49.30	54.37	55.10	50.27	50.57	50.18	51.04	51.86	52.06	51.95	51.69	51.72
3	49.35	55.40	53.68	49.61	50.55	49.67	50.27	52.69	51.85	51.59	51.43	51.00
4	51.12	53.91	53.80	.....	50.47	49.05	50.07	52.71	51.85	52.27	51.41	51.20
5	51.49	53.46	53.90	49.98	51.38	48.83	49.95	52.97	51.04	53.23	51.37	50.15
6	51.63	53.02	52.87	49.92	49.51	48.01	50.46	52.77	50.67	53.49	50.62	51.37
7	51.67	52.49	50.59	50.64	49.06	51.07	50.61	51.74	51.01	52.78	49.95	51.64
8	51.53	50.96	48.87	50.90	49.00	51.11	50.03	51.22	51.59	52.48	50.83	51.35
9	51.57	51.09	48.45	50.0	47.12	51.49	50.42	51.76	51.59	52.49	51.39	51.54
10	50.49	52.57	48.42	50.64	50.79	51.51	50.47	51.50	51.48	51.63	51.41	51.63
11	52.85	52.83	47.97	49.79	52.90	51.80	50.40	52.09	50.87	52.41	51.80	51.46
12	53.33	53.09	48.84	52.77	51.57	51.67	52.27	51.47	51.09	52.30	51.54	50.05
13	53.36	53.08	49.87	52.87	50.96	51.59	52.94	51.11	51.60	52.71	51.50	51.40
14	53.17	50.91	48.37	52.47	50.68	52.01	53.31	51.00	52.01	52.17	50.69	51.28
15	53.14	52.42	52.67	53.17	50.90	52.49	53.30	50.17	51.94	52.40	50.80	50.36

## 8705-3745-11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	53.50	52.42	53.74	51.58	50.56	52.79	52.44	51.37	52.07	51.98	50.80	51.70
17	51.73	52.21	52.99	51.20	51.49	52.12	52.44	52.17	52.26	51.49	51.52	51.76
18	53.17	52.51	51.03	51.02	51.00	52.92	51.82	52.91	52.28	52.77	51.31	51.61
19	54.15	52.69	50.37	50.89	51.21	52.50	53.37	52.73	51.93	53.03	51.29	51.00
20	54.29	50.72	49.41	50.49	50.71	51.37	54.33	52.52	52.68	53.43	51.36	52.75
21	55.57	50.50	48.67	49.67	50.91	52.83	54.63	52.52	52.38	51.17	50.56	52.76
22	54.27	52.69	49.91	49.46	50.32	53.19	54.43	51.37	52.38	48.58	50.83	52.31
23	53.65	53.74	50.67	45.94	50.13	52.24	53.21	52.97	52.16	46.08	51.08	51.70
24	51.77	53.89	50.99	45.03	51.22	52.75	53.21	53.08	52.08	44.07	51.16	51.49
25	53.73	53.39	49.90	44.42	51.49	52.75	53.04	52.97	52.00	46.67	50.60	51.33
26	55.07	53.92	50.14	48.33	51.00	52.37	52.69	52.83	51.61	48.21	51.54	50.13
27	53.27	52.82	49.98	48.92	50.57	52.32	54.69	53.77	51.91	49.87	51.10	51.65
28	52.77	52.07	48.95	48.98	51.67	52.57	54.93	53.97	51.21	50.91	50.53	52.39
29	53.41		50.97	49.71	50.39	52.57	54.09	51.77	51.85	51.99	50.99	52.57
30	52.29		52.01	49.69	48.58	51.77	54.15	52.37	52.09	51.07	51.56	52.73
31	52.09		52.17		49.01		54.22	51.94		49.17		52.35

8705-3745-33. Malco Theatre Corp. 418 Frederica St., Owensboro. Drilled unused artesian well in alluvium of Pleistocene and Recent age, diameter 6 inches, depth 84 feet, screen 62-84(?). Highest water level 18.90 below lsd, Feb. 8, 1952; lowest 41.64 below lsd, July 30, 1954. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.03	38.69	39.02	39.30	39.11	39.62	41.02	41.29	40.98	40.66	38.97	39.24
2	37.83	39.37	39.11	39.04	39.13	39.65	40.97	49.94	40.90	41.00	39.29	39.24
3	38.25	39.20	39.40	39.13	39.13	39.40	40.86	41.03	40.93	40.87	39.20	39.10
4	38.00	39.29	39.30	38.78	39.02	39.45	40.87	41.24	41.23	40.81	39.13	39.04
5	37.95	39.25	39.28	38.81	38.76	39.30	40.84	41.24	41.15	40.81	39.48	38.91
6	38.07	39.23	39.28	38.47	38.53	39.25	40.76	41.22	41.04	40.58	39.12	39.43
7	38.03	39.22	38.85	38.36	38.43	39.43	40.68	41.32	40.97	40.41	39.33	39.15
8	37.97	38.46	38.25	38.80	38.42	39.90	40.80	40.82	40.98	40.05	39.40	38.28
9	37.95	38.49	37.10	38.65	38.32	40.05	40.81	41.28	40.85	39.92	39.33	38.38
10	38.07	38.45	38.60	38.83	38.31	40.10	40.67	41.11	40.83	40.22	39.33	39.09
11	37.96	38.82	38.65	39.33	38.20	40.25	40.68	41.10	40.70	40.01	39.25	39.00
12	38.35	38.88	38.64	39.55	38.32	40.25	40.67	40.55	40.60	40.21	39.20	38.35
13	38.28	38.48	37.07	39.33	38.31	40.20	40.80	40.85	40.62	40.66	39.09	38.30
14	37.94	38.37	37.60	39.38	38.52	40.04	40.92	40.92	40.74	40.56	39.07	38.72
15	37.85	38.42	38.07	39.65	38.75	40.35	41.00	40.76	40.80	39.88	39.00	38.80
16	38.15	38.24	38.42	39.53	38.95	40.21	40.87	40.88	40.86	39.95	38.88	38.90
17	38.40	38.68	38.34	39.65	39.37	40.54	40.82	40.92	40.96	39.91	38.94	38.60
18	38.08	38.51	38.08	39.65	39.34	40.58	40.77	40.95	40.81	40.17	39.00	38.73
19	38.15	38.45	37.67	39.89	39.30	40.70	40.82	41.07	40.81	40.12	38.93	39.05
20	38.16	38.18	38.22	39.87	39.35	40.40	40.87	41.11	40.95	40.10	39.15	39.11
21	38.75	38.65	38.34	39.56	39.35	40.23	40.95	41.12	40.82	39.95	39.19	39.82
22	38.80	38.83	38.19	39.18	39.30	40.27	41.07	41.06	40.65	39.50	39.22	39.22
23	38.75	38.56	38.37	38.50	39.40	40.82	41.14	41.30	40.35	38.50	38.93	39.05
24	38.67	38.62	38.42	37.90	39.40	40.70	41.21	41.19	40.22	37.32	38.83	39.34
25	38.88	38.53	38.45	37.75	39.75	40.75	41.38	41.13	40.23	36.75	39.09	39.15
26	38.94	38.80	38.78	37.75	39.90	40.87	41.40	41.12	40.20	37.07	39.71	39.05
27	39.22	38.52	38.53	37.77	39.55	40.87	41.33	41.31	40.45	37.67	38.93	38.88
28	39.13	38.88	38.34	37.90	39.47	40.74	41.34	41.32	40.61	37.91	38.82	38.85
29	38.68		38.18	37.90	39.73	40.66	41.33	41.20	40.42	38.44	39.49	38.81
30	38.78		38.67	38.65	39.78	40.88	41.42	41.26	40.54	38.87	39.55	39.58
31	38.86		38.97		39.62		41.38	41.05		39.08		39.42

## Edmonson County

8615-3710-1. Mr. Wells. Formerly W. E. Kidwell. Lat. 37°11', long. 86°16'. Dug unused water-table well in Cypress sandstone, diameter 30 inches, depth 23 feet. Highest water level 0.56 below lsd, Apr. 16, 1954; lowest 12.56 below lsd, Nov. 22, 1953. Records available: 1952-54.

8615-3710-1--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.52	6.51	1.32	2.33	3.06	4.78	6.53	10.07	11.41	12.16	12.39	12.49
2	12.53	6.49	1.58	2.41	3.17	4.87	6.62	10.10	11.45	12.17	12.40	12.49
3	12.53	6.48	1.51	2.49	3.22	4.07	6.74	10.12	11.50	12.18	12.40	12.49
4	12.53	6.48	1.80	2.54	3.15	4.06	6.87	10.19	11.55	12.20	12.40	12.50
5	12.53	6.48	2.00	2.53	3.17	4.15	7.00	10.25	11.59	12.21	12.41	12.47
6	12.53	6.48	2.14	1.95	3.23	4.26	7.14	10.32	11.64	12.22	12.41	12.47
7	12.53	6.48	2.24	1.57	1.70	4.36	7.29	10.37	11.68	12.23	12.42	12.47
8	12.54	6.47	2.32	1.33	1.71	4.46	7.37	10.43	11.72	12.24	12.42	12.47
9	12.54	6.46	2.36	1.66	2.06	4.55	7.47	10.48	11.76	12.26	12.43	12.46
10	12.53	6.46	2.41	1.91	2.34	4.64	7.58	10.54	11.80	12.27	12.43	12.47
11	12.53	6.47	2.45	1.41	2.58	4.78	7.70	10.60	11.84	12.29	12.44	12.47
12	12.53	6.49	2.50	1.64	2.79	4.90	7.82	10.64	11.87	12.30	12.45	12.46
13	12.54	6.49	2.55	1.90	2.93	5.03	7.95	10.67	11.90	12.31	12.45	12.43
14	12.53	6.49	2.59	2.09	3.00	5.13	8.10	10.73	11.94	12.32	12.46	12.43
15	12.43	6.49	2.66	1.32	3.10	5.21	8.22	10.78	11.97	12.25	12.46	12.43
16	12.27	6.40	2.73	.58	3.24	5.29	8.33	10.85	12.00	12.26	12.46	12.43
17	12.24	5.21	2.77	1.38	3.39	4.97	8.46	10.90	12.03	12.27	12.46	12.43
18	12.23	4.84	2.80	1.65	3.51	5.07	8.60	10.95	12.06	12.28	12.46	12.44
19	12.22	4.66	2.46	1.95	3.61	5.18	8.73	11.00	12.09	12.29	12.47	12.44
20	11.80	3.59	2.23	2.20	3.71	5.28	8.88	10.93	12.10	12.30	12.47	12.44
21	9.53	2.64	2.28	2.35	3.82	5.39	9.04	10.97	12.06	12.30	12.47	12.44
22	8.79	2.44	2.34	2.45	3.92	5.49	9.09	10.99	12.07	12.31	12.47	12.44
23	8.57	2.38	2.35	2.49	4.01	5.60	9.14	11.03	12.08	12.32	12.48	12.45
24	8.53	2.33	2.04	2.55	4.10	5.71	9.24	11.07	12.09	12.33	12.48	12.45
25	8.49	2.33	1.82	2.61	4.19	5.81	9.34	11.12	12.10	12.34	12.48	12.45
26	8.46	2.38	1.46	2.69	4.31	5.92	9.44	11.16	12.11	12.35	12.48	12.45
27	7.04	2.42	1.69	2.78	4.41	6.03	9.54	11.21	12.12	12.36	12.48	12.45
28	6.73	1.30	1.86	2.81	4.45	6.16	9.65	11.24	12.13	12.37	12.48	12.27
29	6.63		2.01	2.86	4.53	6.29	9.76	11.28	12.14	12.37	12.48	11.71
30	6.58		2.10	2.94	4.62	6.40	9.87	11.32	12.15	12.38	12.49	11.44
31	6.54		2.22		4.70		9.98	11.36		12.38		11.34

## Elliott County

8305-3800-1. Roy Adkins. Lat. 38°04', long. 83°09'. Drilled unused water-table well in rocks of Pennsylvanian age, diameter 6 inches, depth 70 feet. Highest water level 20.81 below lsd, Dec. 30, 1954; lowest 46.35 below lsd, Dec. 17-18, 1953. Records available: 1952-54. Recording gage installed Sept. 17, 1952.

Daily noon water level from recorder graph, 1952

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 16	h42.13	Oct. 3	43.24	Oct. 20	43.99	Nov. 10	44.55
17	h41.74	4	43.15	21	43.82	11	44.63
18	42.05	5	43.11	22	43.82	12	44.65
19	42.21	6	43.26	23	43.91	13	44.67
20	42.55	7	43.25	24	44.05	14	44.82
21	42.42	8	43.39	25	44.17	15	44.83
22	42.34	9	43.43	26	44.19	16	44.96
23	42.38	10	43.56	27	44.14	17	44.92
24	42.37	11	43.71	28	43.81	18	44.93
25	42.57	12	43.69	29	43.91	19	44.94
26	42.60	13	43.68	30	44.00	20	45.01
27	42.85	14	43.73	31	44.16	21	44.95
28	43.04	15	43.63	Nov. 5	44.37	Dec. 10	44.43
29	43.09	16	43.73	6	44.57	11	44.23
30	43.11	17	43.82	7	44.60	12	40.15
Oct. 1	42.89	18	43.87	8	44.52	13	34.85
2	42.83	19	43.90	9	44.49		

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	24.29	.....	23.89	24.07	25.69	.....	35.65	41.23	43.31	45.30
2	.....	.....	.....	24.16	23.95	.....	.....	.....	35.37	41.42	43.40	45.38
3	.....	.....	.....	24.15	24.19	.....	.....	.....	35.64	41.30	43.41	45.52
4	.....	e24.35	.....	24.20	24.20	.....	.....	.....	36.25	41.21	43.59	45.63
5	.....	24.37	22.26	24.24	24.11	.....	.....	.....	36.65	41.38	43.66	45.35

8305-3800-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	25.89	24.20	22.37	24.09	23.96	.....	.....	.....	36.75	41.35	43.68	45.99
7	24.78	e24.34	22.67	23.99	23.71	24.95	.....	.....	37.29	41.22	43.70	46.10
8	20.90	24.44	23.29	23.99	23.73	24.74	.....	.....	36.99	40.68	43.86	46.19
9	.....	24.65	23.62	23.88	23.77	24.50	.....	.....	37.00	41.40	43.96	46.21
10	.....	24.64	23.74	23.96	23.74	24.61	.....	.....	37.15	41.33	44.09	46.29
11	.....	24.31	23.88	24.07	23.77	24.68	.....	.....	37.41	41.20	44.12	46.30
12	.....	24.09	24.04	23.73	23.72	24.28	.....	.....	37.05	41.65	44.09	46.32
13	.....	24.13	24.24	23.56	23.78	24.00	.....	.....	38.14	42.14	44.05	46.33
14	.....	23.91	24.18	23.62	23.77	e24.00	.....	.....	38.13	42.20	44.21	46.33
15	.....	23.66	23.82	23.38	23.67	23.98	.....	.....	37.90	42.26	44.38	46.33
16	.....	23.72	23.10	23.62	23.63	e23.06	.....	.....	38.62	42.38	44.58	46.34
17	.....	23.93	23.18	23.66	22.98	24.14	.....	.....	39.31	42.70	44.69	46.35
18	.....	24.07	22.95	23.45	21.75	24.25	.....	.....	39.60	42.78	44.79	46.35
19	.....	24.10	22.48	23.00	21.75	.....	.....	29.23	39.31	42.69	44.79	46.34
20	.....	23.95	22.68	22.89	.....	.....	.....	.....	39.17	42.65	44.86	.....
21	.....	23.36	23.18	23.17	22.03	.....	h26.69	29.76	39.40	42.70	44.95	46.31
22	.....	22.67	23.50	23.24	e23.51	.....	.....	.....	40.24	42.80	44.97	46.31
23	.....	e23.00	23.72	.....	e23.87	.....	.....	.....	39.95	42.61	44.64	46.32
24	.....	e23.30	23.70	.....	e23.11	.....	.....	.....	39.99	42.50	44.64	46.32
25	.....	e23.52	23.98	.....	e23.30	25.37	.....	.....	40.13	42.82	44.72	46.31
26	.....	e23.72	24.10	.....	23.47	25.40	.....	35.02	40.20	42.93	45.01	46.30
27	.....	23.92	24.00	.....	23.69	25.49	.....	35.21	40.20	42.80	45.06	46.29
28	.....	24.24	.....	.....	23.74	25.54	.....	35.36	40.09	42.92	45.19	46.29
29	.....	.....	.....	.....	23.80	25.59	.....	35.43	40.54	43.19	45.16	46.29
30	.....	.....	.....	23.73	23.72	25.65	.....	35.66	41.00	43.37	45.13	46.29
31	.....	.....	.....	.....	23.80	.....	.....	35.95	.....	43.28	.....	46.29

e Estimated.

h Tape measurement.

Daily noon water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.28	.....	23.92	23.63	23.80	23.78	25.10	.....	h24.96	26.32	25.35	23.22
2	46.28	.....	23.70	23.43	23.74	23.83	25.22	.....	.....	26.10	25.26	23.34
3	46.28	.....	22.51	23.52	23.58	23.66	25.28	h26.11	25.00	25.81	25.36	23.35
4	46.28	.....	21.92	23.50	.....	23.74	25.30	.....	25.10	25.64	25.26	23.41
5	46.26	h24.43	.....	23.52	.....	23.92	25.30	.....	25.21	25.54	25.24	23.48
6	46.28	24.47	.....	23.47	23.45	23.99	25.53	.....	25.24	25.50	24.84	23.71
7	46.28	24.47	.....	23.55	23.40	.....	25.63	.....	25.33	25.62	24.46	23.67
8	46.26	23.66	.....	23.81	22.94	.....	25.68	.....	25.39	25.60	24.35	23.55
9	46.18	24.25	23.43	23.79	23.12	.....	25.69	.....	25.45	25.61	24.34	23.18
10	46.11	24.23	23.58	23.79	23.20	.....	25.76	.....	25.47	25.59	24.43	23.17
11	46.10	24.24	23.66	23.76	23.20	.....	25.76	.....	25.63	25.53	24.47	23.13
12	46.13	24.49	23.71	23.88	23.42	.....	25.77	.....	e25.80	25.60	24.54	22.93
13	46.14	24.47	23.72	23.69	23.53	.....	25.86	.....	25.92	25.72	24.63	22.66
14	46.14	24.26	23.28	23.59	23.62	.....	26.07	25.70	26.01	25.74	24.70	22.12
15	46.12	24.27	23.38	23.73	23.64	.....	26.25	25.60	26.13	25.73	24.74	22.24
16	46.05	24.27	23.65	23.72	23.71	.....	26.10	25.49	26.21	25.84	24.77	22.77
17	.....	24.54	23.66	23.55	23.71	.....	26.12	.....	26.32	26.00	24.96	22.83
18	.....	25.01	23.60	23.47	23.70	.....	26.25	.....	26.32	26.10	25.08	21.70
19	.....	25.46	23.49	23.62	23.72	.....	26.38	.....	26.23	26.19	25.08	22.16
20	.....	25.51	23.72	23.74	23.78	.....	26.39	.....	26.35	26.16	25.13	22.01
21	.....	25.55	23.94	23.75	23.80	.....	26.23	.....	26.04	26.05	25.17	22.29
22	.....	25.67	23.96	23.73	23.81	.....	26.17	.....	25.70	26.06	24.98	22.34
23	.....	25.85	23.90	23.73	23.81	.....	26.21	25.68	25.65	26.17	24.75	22.39
24	.....	25.86	23.95	23.75	23.81	.....	26.25	.....	25.65	26.19	24.46	22.44
25	.....	24.96	23.88	23.79	23.81	.....	26.32	.....	25.65	26.17	24.37	22.53
26	.....	24.46	24.02	23.77	23.79	.....	26.36	.....	25.69	26.19	23.92	22.48
27	.....	24.35	24.01	23.72	23.77	.....	26.37	.....	25.74	26.19	23.13	22.57
28	.....	24.49	23.68	23.79	23.71	.....	26.57	.....	25.86	26.14	23.16	22.43
29	.....	.....	23.68	23.80	23.73	24.80	26.78	.....	26.03	25.87	23.26	21.87
30	.....	.....	23.71	23.81	23.78	24.94	26.75	.....	26.16	25.70	23.46	20.82
31	.....	.....	23.52	.....	23.83	.....	.....	.....	.....	25.50	.....	20.88

e Estimated.

h Tape measurement.

Fayette County

8435-3755-28. M. A. Kehrt. Lat. 37°59', long. 84°36'. Drilled unused water-table well in limestone of Lexington group, diameter 6 inches, depth 132 feet, reported cased to 15. Land-surface datum is about 940 feet above msl. Highest water level 6.87 below lsd, May 21, 1953; lowest 48.56 below lsd, March 1954. Records available: 1952-54. Date on which lowest water level occurred could not be ascertained because of mechanical failure of recording gage.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.27	.....	.....	.....	.....	33.86	27.70	27.97	28.03	14.54	19.27	14.07
2	13.13	.....	.....	41.43	.....	34.38	29.30	28.48	27.75	14.69	19.82	14.10
3	13.32	.....	.....	42.93	.....	34.88	29.19	28.25	27.88	14.87	19.98	14.06
4	13.21	.....	.....	44.20	.....	34.45	26.80	29.00	27.90	14.84	20.75	14.06
5	13.22	12.01	k35.84	45.30	.....	33.33	24.09	28.30	27.88	15.83	22.17	14.11
6	13.49	.....	.....	.....	28.85	32.01	24.89	28.68	27.58	15.81	22.23	14.09
7	13.51	.....	.....	.....	29.25	30.78	25.68	29.22	28.01	16.23	22.79	14.05
8	13.51	.....	.....	.....	28.28	31.10	25.10	29.53	.....	16.79	23.02	14.00
9	13.46	.....	.....	.....	28.71	.....	23.10	27.30	.....	16.73	22.58	13.90
10	13.49	.....	.....	.....	30.72	.....	23.49	22.50	.....	17.06	22.21	13.89
11	13.44	.....	.....	.....	31.80	.....	23.49	22.28	.....	17.30	21.80	13.88
12	13.68	.....	.....	.....	32.35	.....	21.82	23.15	.....	16.98	22.30	13.89
13	13.63	.....	.....	.....	32.10	.....	23.28	25.00	.....	17.28	25.60	13.72
14	13.39	.....	.....	.....	33.32	.....	25.75	25.74	.....	17.26	21.00	13.47
15	12.82	.....	.....	.....	k34.20	.....	27.19	26.13	.....	17.32	22.99	13.39
16	11.86	.....	.....	.....	.....	.....	28.28	26.57	.....	16.50	23.68	13.66
17	11.79	.....	.....	.....	.....	.....	28.30	26.89	.....	16.77	21.88	13.58
18	11.79	.....	.....	.....	.....	27.10	28.31	27.01	.....	17.43	.....	13.56
19	.....	.....	.....	.....	.....	26.41	27.93	27.24	.....	20.08	.....	13.49
20	.....	.....	.....	.....	.....	28.70	27.59	27.34	.....	20.05	.....	13.46
21	.....	.....	.....	.....	.....	29.14	27.10	27.80	.....	20.12	.....	13.50
22	.....	.....	.....	.....	.....	28.33	20.60	27.96	.....	19.06	.....	13.51
23	.....	.....	.....	.....	.....	27.18	16.95	28.30	.....	18.78	.....	13.60
24	.....	.....	.....	.....	.....	25.85	17.95	28.70	.....	19.30	.....	13.95
25	.....	.....	.....	.....	.....	27.61	19.18	28.30	.....	20.09	.....	14.02
26	.....	.....	.....	.....	.....	27.49	20.80	28.30	.....	19.93	.....	14.13
27	.....	.....	.....	.....	.....	26.80	20.70	28.74	.....	19.00	.....	14.13
28	.....	.....	.....	.....	.....	25.76	21.58	28.49	.....	19.09	.....	14.04
29	.....	.....	.....	.....	.....	25.25	22.43	28.48	14.43	18.59	.....	12.80
30	.....	.....	.....	.....	.....	25.55	25.91	28.05	14.43	18.53	14.28	10.70
31	.....	.....	.....	.....	.....	.....	27.14	27.60	.....	18.77	.....	10.50

k Interpolated.

Floyd County

8245-3740-1. B. M. Thompson. Prestonsburg. Lat. 37°40', long. 82°46'. Drilled unused water-table well in shale and sandstone of Breathitt formation, diameter 6 inches, depth 80 feet. Highest water level 31.16 below lsd, Mar. 25, 1952; lowest 40.43 below lsd, Nov. 2-3, 1954. Records available: 1950-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.17	.....	39.19	38.33	38.57	38.26	38.95	39.46	39.83	40.11	40.41	40.24
2	40.17	e39.14	39.12	38.30	38.57	38.29	38.99	e39.47	39.86	40.11	40.41	40.20
3	40.20	39.12	38.88	38.32	38.53	38.28	39.08	39.49	39.85	40.12	40.43	40.17
4	40.19	39.08	38.53	38.32	38.56	38.34	39.02	39.52	39.90	40.13	40.38	40.15
5	40.18	39.10	38.43	38.34	38.53	38.41	39.02	39.50	39.90	40.15	40.40	40.15
6	40.20	39.12	e38.51	38.34	38.51	38.45	39.07	39.50	39.91	40.17	40.39	40.17
7	40.22	39.15	.....	38.38	38.48	38.47	39.09	39.53	39.91	40.24	40.40	40.12
8	40.23	39.11	.....	38.41	.....	38.51	39.09	39.53	39.91	40.22	40.41	40.01
9	40.22	39.11	38.50	38.43	38.43	38.55	39.08	39.50	39.94	40.20	40.40	39.96
10	40.24	39.12	38.45	38.47	38.47	38.59	38.96	39.55	39.94	40.18	40.42	39.98
11	.....	39.18	38.47	38.45	38.46	38.57	39.01	39.60	39.98	40.18	40.41	40.00
12	40.25	39.24	38.49	38.48	38.47	38.56	39.15	39.63	40.05	40.19	40.39	39.97
13	40.25	39.24	38.43	38.46	.....	38.54	39.06	39.67	40.06	40.23	40.39	39.91
14	40.23	39.23	38.46	38.45	.....	38.58	39.09	39.73	40.06	40.25	40.38	39.89
15	40.21	39.30	38.36	38.48	38.48	38.59	39.12	39.70	40.07	40.23	40.39	39.80

## KENTUCKY, FRANKLIN COUNTY

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8245-3740-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	39.99	39.25	38.31	38.46	37.84	38.58	39.20	39.70	39.08	40.24	40.38	.....
17	39.37	39.30	38.35	38.49	37.90	38.62	39.21	39.73	40.11	40.30	40.39	39.83
18	39.38	39.32	38.34	.....	37.98	38.62	39.20	39.56	40.12	40.32	40.40	39.79
19	39.46	39.31	38.32	.....	37.98	38.62	39.22	39.62	40.12	40.35	40.39	39.77
20	39.48	39.28	38.36	38.49	37.91	38.62	39.25	39.64	40.04	40.31	40.33	39.81
21	39.51	39.28	38.46	38.49	37.92	38.63	39.28	39.67	39.98	40.29	40.37	39.80
22	39.47	39.31	38.49	38.49	37.95	38.65	39.30	39.69	40.00	40.32	40.37	39.76
23	39.24	39.25	38.49	.....	e38.00	38.68	39.33	39.71	40.02	40.34	40.36	39.74
24	39.22	39.22	.....	.....	38.06	38.74	39.23	39.74	40.02	40.34	40.28	39.80
25	39.22	39.21	.....	.....	38.08	38.77	39.27	39.73	40.00	40.34	40.31	e39.83
26	39.21	39.22	.....	.....	38.16	38.80	39.29	39.75	39.99	40.32	40.33	e39.83
27	39.21	39.24	e38.50	.....	38.17	38.84	39.32	39.76	40.01	40.31	40.25	e39.83
28	.....	39.20	38.33	e38.50	38.18	38.90	39.35	39.77	40.03	40.34	40.27	39.80
29	.....	.....	38.32	.....	38.20	38.92	39.39	39.79	40.07	40.31	40.29	39.73
30	.....	.....	38.33	.....	38.27	38.97	39.41	39.79	40.10	40.33	40.35	39.19
31	.....	.....	38.31	.....	38.29	.....	39.45	39.80	.....	40.38	.....	38.90

e Estimated.

8245-3740-11. Julia Blackburn. Prestonsburg. Lat. 37°40', long. 82°46'. Dug unused water-table well in alluvium of Quaternary age, diameter 18 inches, depth 19 feet, lined with tile. Highest water level 0.77 below lsd, May 20, 1953; lowest 17.47 below lsd, Dec. 19, 1953. Records available: 1950-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.39	e10.02	9.55	9.13	10.63	10.41	11.55	13.31	12.78	12.76	14.00	10.51
2	17.40	10.02	8.62	9.20	10.66	10.43	11.61	13.31	12.89	12.75	13.99	10.54
3	17.40	9.60	7.40	9.39	10.61	10.44	11.64	13.33	12.97	12.76	14.04	10.58
4	17.41	9.08	7.58	9.54	10.41	10.52	11.69	13.43	13.11	12.79	13.99	10.61
5	17.40	8.87	8.10	9.64	10.40	10.66	11.65	13.47	13.21	12.86	13.88	10.73
6	17.40	8.96	8.45	9.72	10.47	10.75	11.76	13.25	13.25	12.95	13.79	9.43
7	17.41	9.29	8.72	9.83	10.17	10.74	11.85	13.24	13.30	13.19	13.73	9.57
8	17.42	9.32	.....	9.97	9.80	10.79	11.80	13.28	13.38	13.29	13.68	9.63
9	17.42	9.43	9.09	10.06	10.82	10.80	11.81	12.41	13.44	13.34	13.66	9.42
10	17.41	9.61	9.22	10.08	9.94	10.76	11.94	12.39	13.49	13.38	13.67	9.44
11	17.40	9.45	9.42	10.13	10.01	10.57	12.05	12.48	13.61	13.43	13.66	9.51
12	17.40	10.09	9.62	10.02	10.15	10.39	12.13	12.61	13.79	13.51	13.63	9.53
13	17.41	10.19	8.70	9.99	10.27	10.46	12.18	12.75	13.94	13.64	13.62	9.17
14	17.42	10.24	8.68	10.00	10.29	10.49	12.24	12.89	14.05	13.71	13.60	9.10
15	17.37	10.34	9.04	10.09	10.16	10.55	12.34	12.99	14.15	13.69	13.61	9.18
16	15.85	10.39	9.31	10.07	10.18	10.63	12.51	13.07	14.23	13.64	13.58	9.47
17	10.75	10.54	9.46	9.44	10.27	10.74	12.57	13.16	14.31	13.70	13.59	9.42
18	10.30	10.61	9.49	9.35	10.34	10.81	12.65	12.91	14.38	13.73	13.64	8.66
19	10.46	10.64	9.42	9.54	10.38	10.89	12.70	12.83	14.45	13.82	13.63	8.85
20	10.64	10.57	9.47	9.74	10.38	10.94	12.77	12.85	12.90	13.85	12.85	9.08
21	9.71	10.62	9.64	9.86	10.48	10.95	12.81	12.86	11.19	13.84	12.32	9.26
22	7.95	10.78	9.79	9.98	10.56	11.00	12.72	12.94	11.51	13.90	11.94	9.36
23	8.56	10.80	9.85	10.05	10.66	11.08	12.76	12.99	11.76	14.01	11.80	9.43
24	8.76	10.74	9.96	10.09	10.74	11.18	12.84	13.04	11.96	14.10	11.66	9.70
25	8.81	10.65	9.95	10.18	10.78	11.20	12.94	13.06	12.09	14.13	11.68	9.83
26	9.09	10.65	9.49	10.26	10.91	11.27	12.97	13.10	12.23	14.14	11.70	9.91
27	9.27	10.75	9.47	10.30	10.04	11.34	12.98	13.16	12.37	14.12	11.50	9.95
28	9.56	10.67	9.48	10.33	10.91	11.47	13.00	12.91	12.47	14.11	11.45	9.90
29	9.64	.....	9.55	10.43	10.01	11.49	13.02	12.76	12.64	13.99	10.77	6.55
30	9.77	.....	8.86	10.54	10.26	11.54	13.11	12.65	12.77	13.93	10.68	7.38
31	e10.03	.....	8.95	.....	10.38	.....	13.23	12.66	.....	13.98	.....	8.13

e Estimated.

## Franklin County

8455-3815-3. Alvin Rodgers. Lat. 38°16', long. 84°57'. Dug unused water-table well in shale and limestone of Eden formation, diameter 36 inches, depth 22 feet. Land-surface datum is about 880 feet above msl. Highest water level 14.15 below lsd, Apr. 26-27, 1953; lowest 19.75 below lsd, Nov. 20, 1953. Records available: 1953-54.

8455-3815-3--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	k18.67	k18.71	k18.55	18.96	19.23	.....	19.24	.....	18.94	18.91
2	.....	.....	k18.65	18.72	k18.56	18.97	19.23	.....	19.24	.....	18.94	18.91
3	.....	.....	k18.66	18.72	k18.57	18.97	19.23	.....	19.24	.....	18.94	18.91
4	.....	.....	k18.67	18.72	k18.57	18.98	19.24	.....	19.24	.....	18.94	18.91
5	.....	18.75	18.68	18.73	k18.58	19.00	19.24	.....	19.24	.....	18.94	18.91
6	.....	18.75	18.68	18.74	18.59	19.01	19.25	.....	19.24	.....	18.94	18.91
7	.....	18.76	18.69	18.75	18.59	19.02	19.25	.....	19.24	.....	18.94	18.91
8	h19.60	18.77	18.70	18.75	18.60	19.04	19.26	.....	.....	.....	18.94	18.91
9	.....	18.78	18.70	18.76	18.61	19.04	19.26	.....	.....	.....	18.94	18.90
10	.....	k18.78	18.71	18.76	18.62	19.05	19.26	.....	.....	.....	18.94	18.90
11	.....	k18.79	18.72	18.77	18.63	19.06	19.27	.....	.....	.....	18.93	18.90
12	.....	k18.80	18.73	18.78	18.64	19.07	19.27	.....	.....	.....	18.93	18.90
13	.....	k18.80	18.74	18.79	18.66	19.09	19.27	.....	.....	.....	18.93	18.90
14	.....	k18.81	18.75	18.79	18.67	.....	19.27	.....	.....	.....	18.93	18.90
15	.....	k18.82	18.76	k18.80	18.68	.....	19.28	.....	.....	.....	18.93	18.90
16	.....	k18.82	18.77	k18.80	18.69	.....	19.28	.....	.....	.....	18.93	18.90
17	.....	k18.83	18.78	k18.80	18.71	.....	19.28	.....	.....	.....	18.93	18.90
18	.....	k18.84	18.79	k18.84	k18.72	.....	k19.29	.....	.....	.....	18.93	18.90
19	.....	k18.84	k18.76	k18.45	k18.73	.....	k19.29	.....	.....	.....	18.92	18.90
20	.....	k18.85	k18.68	k18.46	k18.74	.....	k19.29	.....	.....	.....	18.92	18.90
21	.....	k18.86	k18.63	k18.47	k18.75	.....	k19.25	.....	.....	.....	18.92	18.90
22	.....	k18.86	k18.64	k18.48	k18.77	.....	k19.25	.....	.....	.....	18.92	18.90
23	.....	k18.87	k18.65	k18.48	k18.78	.....	k19.25	.....	.....	.....	18.92	18.90
24	.....	k18.88	k18.65	k18.49	k18.80	.....	k19.25	.....	.....	.....	18.92	18.90
25	.....	k18.89	k18.66	k18.50	k18.82	.....	k19.25	.....	.....	.....	18.92	18.90
26	.....	k18.89	k18.67	k18.51	k18.84	.....	k19.26	.....	.....	.....	18.91	18.89
27	.....	k18.88	k18.67	k18.52	k18.86	.....	k19.26	19.25	.....	.....	18.91	18.86
28	.....	k18.75	k18.68	k18.53	k18.88	.....	k19.26	19.25	.....	.....	18.91	18.77
29	.....	.....	k18.68	k18.53	k18.90	.....	k19.26	19.25	.....	18.94	18.91	18.53
30	.....	.....	k18.69	k18.54	k18.92	.....	.....	19.25	19.03	18.94	18.91	18.49
31	.....	.....	k18.70	.....	k18.94	.....	.....	19.25	18.94	18.94	18.91	18.49

h Tape measurement.

k Interpolated.

## Fulton County

8850-3630-1. Fulton Waterworks. Norman and Water Sts., Fulton. Lat. 36°30', long. 88°52'. Drilled unused artesian well in sand of Grenada formation, diameter 8 inches, depth 130 feet. Land-surface datum is 363.24 feet above msl. Highest water level 3.60 below lsd, Apr. 11, 1951; lowest 13.58 below lsd, Nov. 21, 1947. Records available: 1945, 1947, 1950-54.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.87	.....	6.73	6.87	.....	.....	8.22	.....	9.22	9.17	.....	.....
2	7.82	.....	6.94	6.73	.....	.....	8.50	.....	9.17	8.95	.....	.....
3	7.94	.....	7.07	6.82	.....	.....	8.28	.....	8.96	9.03	.....	8.90
4	7.92	.....	7.30	6.84	.....	.....	8.44	.....	8.80	8.88	.....	8.50
5	7.83	.....	7.13	6.66	.....	.....	8.47	.....	.....	9.10	.....	.....
6	7.94	.....	7.07	6.70	.....	.....	8.53	.....	.....	9.17	.....	.....
7	8.06	.....	7.05	6.79	.....	.....	.....	.....	.....	9.25	.....	.....
8	8.02	.....	6.89	6.83	.....	.....	8.12	.....	.....	.....	.....	9.37
9	7.85	.....	6.92	7.02	.....	.....	8.14	.....	9.43	.....	9.03	9.17
10	7.82	.....	6.67	6.97	.....	.....	8.21	.....	9.15	.....	8.66	8.86
11	7.69	.....	6.72	7.01	.....	.....	8.33	.....	8.96	.....	9.05	8.57
12	8.03	.....	6.77	7.06	.....	.....	8.10	9.05	9.14	.....	9.07	9.06
13	8.30	.....	6.78	7.15	.....	.....	8.11	8.95	9.12	.....	8.95	8.66
14	8.02	.....	7.18	7.00	.....	.....	8.28	9.01	9.24	.....	8.85	8.70
15	7.67	.....	7.27	6.90	.....	.....	8.24	9.27	9.28	.....	.....	8.47
16	7.46	.....	7.49	6.83	.....	.....	8.44	9.10	9.38	.....	.....	9.00
17	7.71	.....	7.51	6.87	.....	.....	8.38	9.20	9.42	.....	.....	9.15
18	7.43	.....	7.21	6.86	.....	.....	8.47	8.95	9.32	.....	.....	8.95
19	7.48	.....	6.87	6.77	.....	.....	8.34	9.17	9.40	.....	.....	8.85
20	7.33	.....	7.04	7.13	.....	.....	.....	8.72	9.27	.....	.....	8.74
21	7.40	.....	7.29	6.92	.....	.....	.....	8.97	9.07	.....	.....	8.66
22	7.30	.....	7.13	7.02	6.86	8.10	.....	9.24	9.27	.....	.....	8.83
23	7.35	.....	7.17	.....	7.17	7.95	.....	9.15	9.01	.....	.....	.....
24	7.24	.....	6.93	.....	7.09	8.21	.....	9.23	8.99	.....	.....	8.88
25	7.17	.....	6.47	.....	.....	8.22	.....	9.24	9.02	.....	.....	8.81



## 8850-3630-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	7.30	6.72	6.63	....	....	8.22	....	9.40	9.09	....	....	9.08
27	7.23	6.50	6.63	....	....	8.39	....	9.00	9.03	....	....	8.37
28	7.25	6.71	6.51	....	....	8.34	....	9.27	9.08	....	....	8.22
29	7.17		6.37	....	....	8.45	....	....	9.00	....	....	....
30	....		6.52	....	....	8.18	....	9.08	9.11	....	....	....
31	....		6.64	....	....		....	9.23		....	....	....

## Graves County

8830-3650-55. Artell Holshouser. Lat. 36°54', long. 88°30'. Dug unused water-table well in sand and gravel of Pliocene(?) age, diameter 24 inches, depth 36 feet. Land-surface datum is about 392 feet above msl. Highest water level 29.57 below lsd, Apr. 9, 1951; lowest 31.75 below lsd, Sept. 16, 18, 1954. Records available: 1950-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.27	30.73	30.72	30.76	30.76	30.90	31.26	31.52	31.69	e31.61	31.43	31.48
2	31.22	30.73	30.69	30.75	30.72	30.90	31.27	31.47	31.68	31.56	31.47	31.47
3	31.30	30.76	30.80	30.78	30.67	30.87	31.28	31.49	31.67	31.54	31.45	31.45
4	31.25	30.75	30.81	30.77	30.61	30.91	31.29	31.50	31.69	31.52	31.43	31.43
5	31.26	30.80	30.79	30.79	30.59	30.91	31.30	31.50	31.70	31.54	31.45	31.42
6	31.29	30.84	30.79	30.77	30.57	30.91	e31.32	31.51	31.71	31.57	31.42	31.42
7	31.29	30.90	30.76	30.74	30.54	30.92	e31.34	31.52	31.72	31.60	31.44	31.37
8	31.26	30.83	30.77	30.82	30.50	30.93	31.35	31.50	31.71	31.56	31.46	31.32
9	31.26	30.83	30.74	30.79	30.50	30.95	31.36	31.53	31.70	31.54	31.47	31.32
10	31.27	30.84	30.73	30.79	30.51	30.97	31.37	31.55	31.70	31.52	31.48	31.36
11	31.25	30.94	30.75	30.81	30.51	30.97	31.38	31.55	31.72	31.50	31.49	31.35
12	31.31	31.00	30.76	30.84	30.52	30.99	31.38	31.57	31.72	31.51	31.47	31.30
13	31.36	30.94	30.83	30.79	30.53	31.01	31.38	31.57	31.72	31.55	31.46	31.23
14	31.31	30.93	30.90	30.76	30.57	31.00	e31.42	31.57	31.73	31.53	31.45	31.15
15	31.20	30.94	30.97	30.76	30.59	30.99	31.44	31.58	31.74	31.52	31.44	31.14
16	31.16	30.93	30.99	30.75	30.62	31.01	31.45	31.58	31.75	31.55	31.42	31.12
17	31.15	30.87	30.97	30.77	30.64	31.03	31.45	31.58	31.74	31.57	31.42	31.10
18	31.11	30.78	30.89	30.73	30.66	31.06	....	31.59	31.75	31.58	31.41	31.10
19	31.08	30.73	30.83	30.77	e30.68	31.07	....	31.61	e31.74	31.60	31.40	31.14
20	31.05	30.68	30.94	30.81	30.75	31.09	31.48	31.62	31.71	31.58	31.42	31.16
21	31.05	30.68	30.99	30.82	30.78	31.10	31.50	31.64	31.68	31.55	31.43	31.16
22	31.03	30.70	30.96	30.82	30.81	31.11	31.50	31.65	31.67	31.58	31.45	31.16
23	31.01	30.66	30.97	30.82	30.82	31.14	31.49	31.66	31.65	31.60	31.41	31.15
24	31.00	30.65	30.88	30.82	30.84	31.15	31.49	31.65	31.64	31.59	31.41	31.21
25	31.00	30.63	30.86	30.83	30.86	31.16	31.49	31.65	31.62	31.56	31.44	31.23
26	30.99	30.67	30.86	30.82	30.87	31.18	31.49	31.66	31.61	31.50	31.45	31.24
27	30.82	30.63	30.74	30.81	30.86	31.19	31.48	31.68	31.60	31.49	31.41	31.23
28	30.76	30.70	30.71	30.78	30.85	31.21	31.49	31.69	31.60	31.45	31.39	31.15
29	30.72		30.67	30.76	30.89	31.22	31.50	31.69	31.61	31.43	31.49	31.01
30	30.77		30.72	30.75	30.92	31.24	31.51	31.69	31.62	31.43	31.51	31.02
31	30.78		30.74		30.89		31.52	31.69		31.44		30.98

e Estimated.

8835-3650-17. J. Whittemore. Lat. 36°52', long. 88°39'. Drilled unused artesian well in Holly Springs sand, diameter 10 inches, depth 106 feet, screen 83-105. Land-surface datum is about 403 feet above msl. Highest water level 14.06 below lsd, Mar. 23, 1951; lowest 18.94 below lsd, Sept. 22, 1954. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.35	17.61	17.46	17.46	17.24	17.14	17.94	18.36	18.78	18.73	18.41	18.63
2	18.18	17.42	17.43	17.26	17.06	17.08	17.93	18.19	18.72	18.65	18.70	18.62
3	18.47	17.63	17.60	17.39	17.26	17.15	17.88	18.33	18.69	18.54	18.55	18.32
4	18.33	17.64	17.83	17.25	17.24	17.35	17.91	18.39	18.78	18.57	18.36	18.27
5	18.33	17.64	17.72	17.25	17.11	17.34	17.86	18.37	18.81	18.55	18.50	18.25
6	18.43	17.92	17.58	17.22	16.99	17.31	17.91	18.39	18.77	18.70	18.24	18.73
7	18.38	18.00	17.47	17.15	16.90	17.28	17.82	18.41	18.73	18.84	18.41	18.48
8	18.23	17.53	17.41	17.55	16.91	17.28	17.94	18.30	18.75	18.65	18.49	18.12
9	18.27	17.53	17.27	17.39	16.84	17.33	18.02	18.47	18.73	18.53	18.57	18.29
10	18.39	17.49	17.15	17.35	16.88	17.37	18.04	18.50	18.70	18.37	18.58	18.48

## 8835-3650-17--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	18.36	18.15	17.07	17.41	16.74	17.33	18.06	18.53	18.83	18.33	18.57	18.42
12	18.73	18.09	17.09	17.58	16.63	17.36	18.04	18.53	18.84	18.37	18.46	18.18
13	18.66	17.77	17.28	17.35	16.62	17.40	17.97	18.53	18.76	18.50	18.32	18.10
14	18.31	17.72	17.67	17.12	16.66	17.42	18.04	18.53	18.78	18.42	18.31	17.90
15	18.12	17.77	17.92	17.09	16.77	17.38	18.10	18.54	18.79	18.44	18.24	17.95
16	18.34	17.77	18.05	17.10	16.75	17.41	18.24	18.51	18.86	18.59	18.17	17.98
17	18.56	17.92	17.88	17.32	16.71	17.51	18.17	18.50	18.85	18.63	18.25	17.79
18	18.29	17.65	17.51	17.20	16.77	17.59	18.13	18.51	18.81	18.80	18.15	17.79
19	18.19	17.42	17.11	17.35	16.75	17.56	18.13	18.56	18.74	18.77	18.13	18.06
20	18.03	17.21	17.56	17.47	16.92	17.57	18.11	18.61	18.78	18.65	18.32	18.06
21	18.31	17.44	17.83	17.28	17.11	17.56	18.11	18.66	18.83	18.57	18.34	18.00
22	18.21	17.55	17.68	17.23	17.14	17.56	18.14	18.71	18.94	18.69	18.43	17.93
23	18.14	17.29	17.67	17.29	17.11	17.70	18.15	18.74	18.90	18.73	18.27	17.82
24	18.00	17.26	17.51	17.29	17.07	17.68	18.21	18.66	18.76	18.67	18.25	18.14
25	18.03	17.00	17.32	17.23	17.05	17.65	18.28	18.54	18.74	18.55	18.41	18.13
26	17.93	17.30	17.63	17.08	17.08	17.68	18.30	18.53	18.65	18.47	18.50	18.13
27	18.10	17.00	17.42	17.01	17.02	17.69	18.27	18.63	18.60	18.55	18.22	17.96
28	17.97	17.30	17.25	17.05	16.89	17.77	18.26	18.70	18.58	18.30	18.11	17.82
29	17.75		17.03	17.12	17.15	17.80	18.32	18.66	18.65	18.35	18.72	17.43
30	17.94		17.24	17.14	17.28	17.86	18.38	18.67	18.73	18.43	18.86	17.80
31	17.87		17.28		17.13		18.38	18.75		18.50		17.54

## Harlan County

8315-3650-2. J. D. White. Lat. 36°51', long. 83°19'. Drilled unused water-table well, diameter 6 inches, depth 101 feet, cased to 22. Highest water level 23.58 below lsd, May 23, 1953; lowest 32.29 below lsd, Oct. 17, 1951. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.53	31.28	30.76	.....	29.09	28.53	29.26	29.56	30.37	30.82	31.14	31.47
2	31.49	31.22	30.92	29.68	29.00	28.57	29.27	29.53	30.35	30.85	31.21	31.52
3	31.69	31.17	30.69	29.74	28.82	28.48	29.21	29.58	30.32	30.79	31.36	31.51
4	31.55	31.15	30.75	29.67	28.94	28.71	29.20	29.85	30.42	30.77	31.12	31.52
5	31.50	31.29	30.58	29.67	28.83	28.89	29.06	29.66	30.47	30.79	31.31	31.46
6	31.59	31.35	30.43	29.52	28.79	28.90	29.15	29.72	30.44	30.86	31.24	31.80
7	31.63	31.49	30.23	29.48	28.74	28.84	29.08	29.77	30.38	31.04	31.35	31.71
8	31.62	31.01	30.21	29.52	28.89	28.83	29.17	29.74	30.41	30.94	31.40	31.57
9	31.56	30.98	30.07	29.53	28.78	28.88	29.25	29.78	30.43	30.86	31.33	31.32
10	31.52	30.99	30.03	29.50	28.93	28.90	29.30	29.81	30.37	30.75	31.43	31.61
11	31.60	31.19	30.11	29.37	28.82	28.89	29.34	29.92	30.45	30.76	31.39	31.72
12	31.85	31.41	30.17	29.45	28.76	28.90	29.35	29.97	30.65	30.82	31.31	31.62
13	31.76	31.14	30.18	29.31	28.74	28.95	29.32	30.00	30.65	30.96	31.28	31.47
14	31.62	31.06	30.34	29.07	28.80	28.97	29.32	30.03	30.61	30.86	31.26	31.38
15	31.20	31.05	30.49	29.07	28.85	28.95	29.34	29.96	30.56	30.71	31.25	31.39
16	31.20	30.90	30.55	29.76	28.76	28.95	29.50	29.95	30.58	31.01	31.23	31.63
17	31.58	31.19	30.32	29.08	28.68	29.04	29.51	30.02	30.59	31.09	31.33	31.66
18	31.51	31.05	30.10	29.15	28.62	29.10	29.46	30.06	30.56	31.15	31.34	31.36
19	31.55	31.00	29.70	29.21	28.61	29.05	29.47	30.09	30.51	31.13	31.18	31.38
20	31.51	30.79	29.91	29.28	28.68	29.06	29.44	30.08	30.49	31.01	31.20	31.58
21	31.51	30.87	30.16	29.24	28.75	29.02	29.38	30.15	30.46	30.99	31.45	31.63
22	31.37	31.00	30.10	29.15	28.77	28.98	29.38	30.25	30.78	31.12	31.46	31.59
23	31.48	30.78	30.06	29.05	28.75	29.06	29.47	30.26	30.82	31.17	31.34	31.50
24	31.50	30.65	30.03	29.06	28.67	29.13	29.53	30.20	30.84	31.10	31.23	31.38
25	31.55	30.65	29.84	29.06	28.61	29.12	29.58	30.10	30.73	31.01	31.49	31.69
26	31.47	30.82	30.01	28.97	28.61	29.10	29.63	30.11	30.63	31.02	31.58	31.67
27	31.46	30.68	29.90	28.80	28.57	29.09	29.59	30.21	30.66	30.97	31.26	31.69
28	31.62	30.63	29.74	28.78	28.47	29.19	29.56	30.32	30.67	30.92	31.18	31.58
29	31.45		29.58	28.93	28.53	29.20	29.58	30.29	30.78	30.93	.....	31.42
30	31.45		29.53	29.04	28.73	29.24	29.68	30.23	30.84	31.16	.....	31.27
31	31.54		e29.53		28.71		29.66	30.26		31.22		31.53

e Estimated.

## Henderson County

8720-3745-34. Isidore Varble. Lat. 37°49', long. 87°22'. Driven unused water-table well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 37 feet, perforations 35-37. Highest water level 14.39 below lsd, Mar. 31, 1952; lowest 23.23 below lsd, Dec. 30, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	22.00	Apr. 30	22.06	Aug. 3	22.60	Oct. 29	23.00
26	22.01	June 2	22.22	31	22.80	Nov. 30	23.08
Mar. 29	22.04	July 2	22.44	Oct. 1	22.92	Dec. 30	23.23

8720-3750-41. R. V. Purgason. Lat. 37°52', long. 87°24'. Driven unused water-table well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 24 feet, perforations 22-24. Highest water level 9.95 below lsd, Mar. 31, 1952; lowest 19.90 below lsd, Dec. 30, 1954. Records available: 1949, 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	18.74	Apr. 30	18.40	Aug. 3	19.09	Oct. 29	19.72
26	18.74	June 2	18.46	31	19.42	Nov. 30	19.88
Mar. 29	18.57	July 2	18.88	Oct. 1	19.68	Dec. 30	19.90

8720-3750-152. R. Hohimer. Formerly Robert Willingham. Lat. 37°51', long. 87°21'. Driven unused artesian well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 33 feet, perforations 26-29. Highest water level 14.70 below lsd, Apr. 7, 1952; lowest 21.84 below lsd, Dec. 30, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	20.04	Apr. 30	20.52	Aug. 3	20.98	Oct. 29	21.44
26	20.10	June 3	20.65	31	21.19	Dec. 1	21.73
Mar. 29	20.22	July 2	20.84	Oct. 1	21.31	30	21.84

8730-3745-221. R. R. Roberts. Lat. 37°46', long. 87°34'. Drilled unused artesian well in Anvil Rock sandstone member of Lisman formation, diameter 5 inches, depth 106 feet, cased to 20. Land-surface datum is 433 feet above m.s.l. Highest water level 30.41 below lsd, May 4, 1951; lowest 37.52 below lsd, Nov. 30, 1954. Records available: 1949-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.20	35.26	35.73	36.01	35.76	35.38	35.84	35.88	36.36	36.62	36.64	37.09
2	34.99	35.19	35.57	35.72	35.58	35.38	35.81	35.76	36.33	36.48	37.00	37.01
3	35.52	35.27	36.01	36.01	35.76	35.35	35.63	35.96	.....	36.43	36.85	36.80
4	35.08	35.20	36.00	35.74	35.74	35.71	35.72	36.04	36.32	36.49	36.62	36.82
5	35.22	35.45	35.79	35.66	35.60	35.71	35.66	35.96	36.34	36.51	36.92	36.94
6	35.45	35.66	35.74	35.61	35.48	35.63	35.66	35.03	36.30	36.73	36.62	37.44
7	35.31	35.86	35.54	35.61	35.59	35.57	35.58	35.05	36.27	36.80	36.84	37.15
8	35.16	35.17	35.58	36.05	35.68	35.58	35.77	35.86	36.29	36.55	36.94	36.76
9	35.28	35.23	35.32	35.85	35.72	35.58	35.84	36.09	36.27	36.43	36.54	36.90
10	35.31	35.30	35.33	35.76	35.74	35.60	35.82	36.05	36.22	36.36	36.98	37.22
11	35.29	35.78	35.34	35.85	35.61	35.56	35.80	36.14	36.33	36.25	36.92	37.15
12	35.83	36.07	35.32	35.98	35.62	35.57	35.73	36.16	.....	36.36	36.84	37.96
13	35.58	35.57	35.59	35.57	35.54	35.61	35.69	36.12	36.35	36.60	36.66	36.92
14	35.20	35.42	35.95	35.43	35.60	35.59	35.70	36.10	.....	36.41	36.71	36.83
15	35.03	35.46	36.13	35.40	35.62	35.54	35.87	36.12	36.33	36.45	36.67	37.00
16	35.41	35.43	36.13	35.53	35.53	35.54	35.95	36.06	36.36	36.64	36.61	37.09
17	35.69	35.89	35.79	35.65	35.54	35.71	35.82	36.07	36.39	36.67	36.73	36.82
18	.....	35.67	35.44	35.52	35.56	35.74	35.74	36.05	36.23	36.91	36.68	36.94
19	.....	35.51	35.02	35.77	35.54	35.66	35.80	36.11	36.15	36.85	36.61	36.24
20	.....	35.13	35.69	35.88	35.70	35.62	35.78	36.16	36.30	36.66	36.85	37.20
21	.....	35.57	35.96	35.75	35.70	35.59	35.77	36.24	36.48	36.58	36.90	37.20
22	.....	35.82	35.70	35.65	35.70	35.57	35.84	36.28	36.53	36.73	36.96	37.00
23	.....	35.46	35.73	35.70	35.68	35.73	35.86	36.29	36.51	36.78	36.67	36.90
24	.....	35.35	35.56	35.67	35.60	35.72	35.97	36.25	36.39	36.72	36.72	37.33
25	.....	35.19	35.45	.....	35.56	35.63	36.01	36.11	36.37	36.57	36.99	37.21
26	.....	35.52	36.00	h35.45	35.55	35.64	36.03	36.05	36.29	36.51	37.04	37.22
27	.....	35.20	35.70	35.39	35.42	35.68	35.95	36.16	36.27	36.66	36.68	37.10
28	.....	35.62	35.57	35.59	35.30	35.76	35.91	36.27	36.31	36.56	36.64	37.08
29	35.38	.....	35.47	35.54	35.55	35.77	35.95	36.24	36.43	36.52	37.37	36.78
30	35.68	.....	35.79	35.64	35.66	35.76	36.02	36.14	36.57	36.72	37.42	37.41
31	35.68	.....	35.81	.....	35.52	.....	35.96	36.26	.....	36.82	.....	37.15

h Tape measurement.

8730-3750-143. Audie Wilson. Lat. 37°52', long. 87°34'. Drilled unused artesian well in sandstone and shale of Carbondale formation, diameter 6 inches, depth 109 feet, cased to 57. Land-surface datum is 385 feet above msl. Highest water level 27.12 below lsd, Mar. 7, 1950; lowest 43.83 below lsd, Dec. 28, 1954. Records available: 1949-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.95	42.15	42.28	42.13	42.02	41.87	42.37	42.87	43.08	43.37	43.51	43.60
2	41.96	42.14	42.27	42.10	42.00	41.90	42.38	42.84	43.08	43.38	43.51	43.60
3	41.99	42.19	42.31	42.12	42.00	41.91	42.39	42.85	43.11	43.41	43.48	43.60
4	41.97	42.17	42.30	42.12	41.97	41.94	42.41	42.87	43.12	43.40	43.51	43.61
5	42.00	42.15	42.30	42.12	41.95	41.95	42.43	42.86	43.12	43.41	43.48	43.64
6	42.01	42.16	42.31	42.10	41.97	41.97	42.43	42.87	43.14	43.42	43.48	43.63
7	42.01	42.15	42.31	42.10	41.97	41.99	42.47	42.88	43.15	43.42	43.48	43.65
8	42.01	42.11	42.29	42.13	41.92	42.02	42.47	42.89	43.16	43.40	43.47	43.65
9	42.04	42.14	42.28	42.11	41.90	e42.01	42.48	42.91	43.17	43.42	43.47	43.68
10	42.03	42.14	42.28	42.12	41.86	e42.03	42.49	42.92	43.19	43.42	43.45	43.68
11	42.05	42.16	42.30	42.13	41.84	e42.05	42.51	42.93	43.19	e43.43	43.45	43.68
12	42.07	42.16	42.26	42.11	41.83	e42.07	42.51	42.92	43.19	e43.45	43.46	43.68
13	42.07	42.14	42.28	42.10	41.83	e42.08	42.54	42.95	53.20	e43.46	43.46	43.69
14	42.07	42.16	42.30	42.12	41.81	e42.10	42.56	43.00	43.21	43.47	43.47	43.65
15	42.08	42.16	42.28	42.12	41.79	e42.11	42.58	42.98	43.22	43.46	43.48	43.71
16	42.11	42.17	42.26	42.11	41.78	e42.14	42.54	42.98	43.25	43.48	43.47	43.71
17	42.13	42.18	42.24	42.12	41.77	e42.16	42.61	42.98	43.25	43.47	43.49	43.72
18	42.13	42.18	42.25	42.12	41.77	e42.18	42.62	42.99	43.26	43.48	43.51	43.73
19	42.13	42.18	42.21	42.11	41.77	e42.19	42.64	43.00	43.27	43.48	43.51	43.76
20	42.12	42.22	42.22	42.10	41.76	e42.21	42.67	42.99	43.27	43.48	43.52	43.74
21	42.15	42.23	42.21	42.09	41.76	e42.23	42.69	42.99	43.30	43.49	43.54	43.74
22	42.19	42.23	42.18	42.08	41.75	42.25	42.71	42.99	43.28	43.49	43.54	43.73
23	42.18	42.24	42.16	42.07	41.76	42.26	42.72	43.01	43.30	43.48	43.53	43.74
24	42.18	42.23	42.15	42.04	41.76	42.25	42.76	43.01	43.30	43.46	43.55	43.75
25	42.16	42.23	42.16	e42.02	41.76	42.30	42.74	43.01	43.31	43.44	43.55	43.72
26	42.13	42.27	42.16	42.01	41.77	42.29	42.75	43.04	43.33	43.44	43.55	43.72
27	42.16	42.27	42.14	42.01	41.78	42.31	42.74	43.05	43.34	43.46	43.57	43.73
28	42.16	42.29	42.14	42.02	41.79	42.32	42.78	43.06	43.34	43.46	43.58	43.74
29	42.15		42.12	42.02	41.82	42.34	42.78	43.06	43.35	43.50	43.60	43.75
30	.....		42.14	42.02	41.83	42.36	42.83	43.07	43.37	43.51	43.59	43.76
31	.....		42.13		41.85		42.83	43.07		43.51		43.75

e Estimated.

8730-3750-209. Russell E. Toone. Lat. 37°52', long. 87°34'. Driven unused artesian and water-table well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 55 feet, perforations 53-55. Highest water level 32.64 below lsd, Apr. 20, 1951; lowest 51.20 below lsd, Oct. 27, 1954. Records available: 1950-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	49.45	Mar. 16	49.50	June 2	47.76	Sept. 20	50.96
Feb. 1	49.78	29	48.89	July 1	48.87	Oct. 27	51.20
15	49.49	Apr. 19	48.52	Aug. 3	49.76	Nov. 30	50.98
22	49.61	30	48.31	31	50.35	Dec. 29	50.91
26	49.68	May 14	47.78				

8735-3745-1. Harold K. Wright. Formerly W. C. Caton. Lat. 37°48', long. 87°38'. Drilled unused artesian well in alluvium of Pleistocene and Recent age, diameter 4 inches, depth 54 feet, cased to 48. Land-surface datum is 385 feet above msl. Highest water level 10.80 below lsd, Feb. 24, 1950; lowest 26.88 below lsd, Oct. 29, 1954. Records available: 1949-54.

Jan. 29	25.18	Apr. 30	20.23	Aug. 3	23.08	Oct. 29	26.88
Feb. 26	23.22	June 2	19.58	31	23.47	Nov. 30	26.24
Mar. 29	21.40	July 1	a22.59	Sept. 30	b26.34	Dec. 29	26.86

a Pumping.

b Pumped recently.

#### Hopkins County

8735-3720-11. R. K. Brooks. Lat. 37°24', long. 87°37'. Drilled unused artesian well in Lisman formation, diameter 6 inches, depth 50 feet. Land-surface datum is about 425 feet above msl. Highest water level 1.06 below lsd, May 18, 1953; lowest 16.48 below lsd, Dec. 26, 1952. Records available: 1952-54.

8735-3720-11--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h10.30	9.32	4.75	7.36	7.15	7.78	8.14	8.67	9.84	10.25	10.19	9.77
2	.....	9.31	4.63	7.28	7.25	7.86	8.08	8.65	9.87	10.26	10.18	9.78
3	.....	9.27	4.60	7.38	7.32	7.82	8.12	8.72	9.89	10.26	10.18	9.77
4	.....	9.33	4.70	7.40	7.39	7.88	8.15	8.79	9.93	10.27	10.16	9.77
5	.....	9.42	4.67	7.39	7.46	7.90	8.21	8.81	9.97	10.27	10.13	9.67
6	.....	9.49	4.77	6.74	7.41	7.94	8.23	8.83	10.01	10.28	10.08	9.72
7	.....	9.61	4.82	6.11	6.79	7.97	8.22	8.89	10.04	10.29	10.10	9.77
8	.....	9.59	4.91	5.92	6.47	7.98	8.24	8.90	10.06	10.28	10.10	9.77
9	.....	9.55	5.39	6.06	6.11	8.02	8.29	8.97	10.09	10.28	10.09	9.77
10	.....	9.56	5.47	6.17	6.36	8.04	8.28	9.01	10.11	10.27	10.07	9.77
11	.....	9.67	5.61	6.21	6.42	8.06	8.32	9.08	10.15	10.26	10.03	9.76
12	.....	9.83	5.80	6.24	6.62	8.02	8.30	9.12	10.19	10.24	10.02	9.71
13	.....	9.83	5.97	6.31	6.48	8.06	8.34	9.15	10.20	10.25	9.98	9.37
14	.....	9.82	6.26	6.38	6.67	8.03	8.36	9.19	10.22	10.28	9.97	9.69
15	.....	9.83	6.56	6.35	6.77	7.97	8.21	9.22	10.23	10.25	9.96	9.70
16	.....	9.62	6.77	5.74	6.88	7.88	8.26	9.26	10.26	10.28	9.93	9.58
17	.....	8.30	6.61	5.63	6.98	7.91	8.27	9.25	10.26	10.26	9.91	9.66
18	10.33	7.85	6.56	5.76	7.06	8.03	8.28	9.29	10.25	10.26	9.88	9.63
19	10.31	7.69	6.59	5.98	7.15	8.08	8.32	9.34	10.23	10.27	9.86	9.61
20	10.30	7.08	6.81	6.13	7.24	8.11	8.34	9.39	10.20	10.27	9.84	9.61
21	10.30	6.84	7.06	6.21	7.31	8.14	8.35	9.43	10.11	10.28	9.82	9.63
22	10.23	6.88	7.10	6.41	7.42	8.14	8.25	9.49	10.18	10.27	9.80	9.63
23	10.19	6.82	7.15	6.60	7.47	8.14	8.30	9.55	10.21	10.29	9.78	9.65
24	10.17	6.62	7.17	6.71	7.55	8.21	8.37	9.58	10.23	10.28	9.75	9.66
25	10.17	6.49	7.06	6.86	7.61	8.40	8.44	9.58	10.23	10.26	9.79	9.67
26	10.15	6.59	6.75	6.94	7.65	8.27	8.50	9.60	10.22	10.27	9.82	9.66
27	9.76	6.37	6.62	6.73	7.67	8.17	8.53	9.64	10.21	10.28	9.80	9.64
28	9.49	5.22	6.65	6.82	7.70	8.17	8.55	9.69	10.22	10.25	9.79	9.60
29	9.36		6.82	6.97	7.70	8.09	8.59	9.72	10.23	10.25	9.77	9.61
30	9.34		7.00	7.10	7.81	8.09	8.65	9.74	10.23	10.20	9.78	10.02
31	9.39		7.20		7.81		8.69	9.79		10.19		10.00

h Tape measurement.

Jefferson County

38-19-2. Louisville Water Co. River Rd., northeast of Goose Creek. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 110 feet, screen 94-96. Land-surface datum is 438.46 feet above msl. Highest water level 1.84 below lsd, Jan. 14, 1950; lowest 20.97 below lsd, Feb. 3, 1948. Records available: 1946-54. Jan. 29, 19.09; Mar. 17, 18.61; Apr. 30, 18.57; June 8, 18.71; July 16, 19.01; Aug. 24, 18.99.

41-16-2. Louisville Water Co. Zorn Ave., south of River Rd. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 94 feet, screen 82-84. Land-surface datum is 428.46 feet above msl. Highest water level 2.37 above lsd, Jan. 21, 1950; lowest 11.75 below lsd, Feb. 9, 1948. Records available: 1946-54. Feb. 3, 9.40; Mar. 17, 9.46; Apr. 30, 9.18; June 8, 9.23; July 16, 9.56; Aug. 24, 9.59; Dec. 20, 9.28.

41-16-3. Louisville Water Co. River Rd. and Zorn Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 104 feet, screen 98-100. Land-surface datum is 435.79 feet above msl. Highest water level 1.21 above lsd, Apr. 23, 1948; lowest 19.61 below lsd, Feb. 13, 1948. Records available: 1946-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.63	16.80	16.74	16.81	16.50	16.51	16.71	16.87	16.81	16.70	16.67	16.54
2	16.59	16.80	16.55	16.82	16.56	16.54	16.74	16.81	16.86	16.70	16.70	16.53
3	16.63	16.69	16.50	16.82	16.58	16.46	16.75	16.77	16.88	16.70	16.72	16.52
4	16.59	16.61	16.69	16.75	16.63	16.48	16.75	16.78	16.89	16.69	16.58	16.51
5	16.54	16.62	16.72	16.67	16.60	16.58	16.75	16.73	16.93	16.68	16.55	16.45
6	16.58	16.69	16.72	16.60	16.54	16.54	16.74	16.70	16.93	16.65	16.55	16.53
7	16.62	16.69	16.69	16.52	16.50	16.45	16.73	16.74	16.90	16.65	16.55	16.59
8	16.62	16.59	16.65	16.53	16.55	16.45	16.74	16.78	16.94	16.65	16.55	16.57
9	16.60	16.57	16.60	16.53	16.54	16.46	16.75	16.80	16.94	16.66	16.55	16.45
10	16.60	16.59	16.52	16.54	16.54	16.48	16.75	16.70	16.94	16.66	16.58	16.53

## 41-16-3--Continued.

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	16.62	16.64	16.51	16.62	16.49	16.49	16.76	16.72	16.95	16.63	16.59	.....
12	16.65	16.71	16.50	16.67	16.50	16.54	16.75	16.66	16.97	16.62	16.60	.....
13	16.71	16.70	16.43	16.60	16.48	16.54	16.75	16.64	16.97	16.64	16.60	16.48
14	16.71	16.69	16.48	16.51	16.45	16.54	16.74	16.68	16.98	16.65	16.63	16.41
15	16.71	16.65	16.61	16.49	16.43	16.53	16.75	16.74	16.98	16.63	16.66	16.32
16	16.71	16.62	16.75	16.48	16.42	16.54	16.78	16.76	16.98	16.62	16.65	16.34
17	16.71	16.64	16.77	16.55	16.44	16.56	16.80	16.78	16.98	16.67	16.65	16.35
18	16.60	16.70	16.73	16.55	16.54	16.56	16.78	16.84	16.98	16.83	16.65	16.40
19	16.70	16.70	16.58	16.61	16.64	16.54	16.76	16.83	16.98	16.91	16.65	16.48
20	16.71	16.70	16.55	16.68	16.65	16.53	16.64	16.80	16.93	16.91	16.56	16.52
21	16.77	16.83	16.55	16.68	16.67	16.54	16.63	16.80	16.82	16.87	16.56	16.52
22	16.70	16.83	16.59	16.60	16.66	16.52	16.70	16.83	16.82	16.71	16.56	16.54
23	16.76	16.74	16.66	16.56	16.62	16.50	16.78	16.85	16.76	16.66	16.54	16.52
24	16.74	16.75	16.78	16.47	16.55	16.58	16.87	16.86	16.69	16.65	16.53	16.52
25	16.73	16.73	16.78	16.40	16.50	16.56	16.87	16.77	16.66	16.53	16.60	16.47
26	16.70	16.79	16.79	16.38	16.50	16.55	16.66	16.79	16.66	16.49	16.60	16.43
27	16.70	16.79	16.74	16.37	16.54	16.56	16.55	16.83	16.66	16.43	16.50	16.41
28	16.75	16.74	16.70	16.36	16.58	16.60	16.54	16.93	16.66	16.43	16.45	16.40
29	16.76		16.74	16.37	16.54	16.63	16.73	16.91	16.69	16.53	16.46	16.40
30	16.77		16.78	16.42	16.53	16.65	16.86	16.75	16.70	16.67	16.55	16.40
31	16.78		16.78		16.50		16.87	16.73		16.67		16.55

42-16-15. Louisville Water Co. West of Louisville Water Co. pumping station at Zorn Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 102 feet, screen 96-98. Land-surface datum is 435.11 feet above msl. Highest water level 0.38 above lsd, Feb. 10, 1950; lowest 18.34 below lsd, Feb. 3, 1948. Records available: 1946-54. Feb. 3, 15.59; Mar. 17, 15.77; Apr. 30, 15.64; June 8, 15.62; July 16, 15.82; Aug. 24, 15.87; Dec. 20, 15.66.

43-15-1. City of Louisville. Letterlie Ave. and Lloyd St. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 58 feet, cased to 58. Land-surface datum is 446.45 feet above msl. Highest water level 6.39 below lsd, Apr. 20, 1948; lowest 38.45 below lsd, Feb. 23, 1954. Records available: 1937-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	34.42	Apr. 5	37.58	July 6	37.36	Oct. 4	34.90
11	35.70	12	37.38	12	37.20	11	34.97
18	36.50	19	36.35	19	36.25	18	35.24
25	36.40	26	35.52	26	35.49	25	35.29
Feb. 1	36.55	May 3	35.90	Aug. 2	35.79	Nov. 1	35.34
8	37.08	10	35.44	9	35.67	8	35.27
15	37.74	17	35.48	16	35.68	15	35.15
23	38.45	24	35.65	23	35.60	22	35.03
Mar. 1	36.41	June 1	35.73	30	35.00	29	34.93
8	36.10	7	36.22	Sept. 7	35.20	Dec. 6	35.00
15	38.15	14	36.87	13	34.89	13	34.95
22	37.88	21	37.00	20	34.00	20	34.90
29	38.02	28	37.30	27	34.50	27	35.03

44-14-1. Southeastern Greyhound Lines. Caldwell and Floyd Sts., Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 90 feet. Land-surface datum is 456.96 feet above msl. Highest water level 61.25 below lsd, June 29, 1945; lowest 71.13 below lsd, Aug. 24, 1954. Records available: 1943-54. Feb. 4, 69.85; Mar. 24, 68.96; May 5, 69.67; June 9, 69.97; July 20, 70.49; Aug. 24, 71.13.

44-15-6. Ohio River Sand Co. 129 River Rd., Louisville. Drilled unused artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 130 feet. Land-surface datum is 440.13 feet above msl. Highest water level 30.55 below lsd, Feb. 8, 1950; lowest 40.32 below lsd, Dec. 30, 1954. Records available: 1945-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	38.93	May 5	38.42	July 20	38.77	Oct. 22	40.02
Mar. 19	39.12	June 9	38.33	Aug. 24	39.34	Dec. 20	40.32

45-14-2. City of Louisville. Fourth and York Sts. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 115 feet, cased to 115. Land-surface datum is 453.42 feet above msl. Highest water level 12.32 below lsd, Feb. 14, 1937; lowest 76.10 below lsd, Oct. 7-8, 1954. Records available: 1937-54.

45-14-2--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.76	67.82	67.28	66.85	68.04	68.88	71.95	74.27	75.53	75.82	75.00	73.09
2	68.70	67.79	67.26	66.82	68.13	68.98	72.06	74.32	75.53	75.85	74.91	73.03
3	68.68	67.75	67.24	66.82	68.21	69.08	72.16	74.38	75.53	75.89	74.78	73.00
4	68.63	67.72	67.25	66.81	68.30	69.18	72.26	74.44	75.54	75.94	74.66	72.92
5	68.60	67.72	67.21	66.79	68.30	69.24	72.35	74.50	75.57	76.00	74.57	72.85
6	68.56	67.69	67.18	66.76	68.28	69.28	72.40	74.57	75.57	76.06	74.47	72.81
7	68.52	67.69	67.16	66.77	68.23	69.32	72.48	74.63	75.58	76.10	74.40	72.73
8	68.48	67.64	67.14	66.86	68.20	69.38	72.57	74.68	75.60	76.09	74.29	72.62
9	68.44	67.62	67.10	66.92	68.15	69.46	72.66	74.73	75.64	76.05	74.20	72.55
10	68.42	67.60	67.08	66.90	68.10	69.56	72.74	74.77	75.67	76.03	74.11	72.49
11	68.37	67.59	67.06	66.90	68.04	69.68	72.80	74.81	75.70	76.01	74.02	72.44
12	68.35	67.61	67.04	66.93	68.01	69.80	72.85	74.83	75.71	76.02	73.95	72.38
13	68.33	67.56	67.02	66.92	67.98	69.94	72.91	74.84	75.69	76.03	73.86	72.31
14	68.27	67.53	67.02	66.88	67.95	70.07	72.99	74.84	75.69	76.05	73.80	72.23
15	68.23	67.51	67.02	66.90	67.95	70.19	73.08	74.85	75.70	76.07	73.73	72.17
16	68.20	67.49	67.03	66.96	68.01	70.31	73.17	74.85	75.72	76.06	73.70	72.14
17	68.20	67.51	67.00	67.03	68.09	70.44	73.24	74.88	75.74	76.01	73.70	72.07
18	68.15	67.52	66.96	67.04	68.16	70.57	73.32	74.92	75.75	75.94	73.69	72.03
19	68.12	67.48	66.90	67.04	68.22	70.69	73.39	74.97	75.79	75.86	73.68	72.00
20	68.08	67.44	66.90	67.09	68.26	70.81	73.45	75.00	75.81	75.81	73.56	71.96
21	68.07	67.44	66.92	67.15	68.26	70.90	73.54	75.07	75.83	75.74	73.47	71.91
22	68.06	67.44	66.90	67.21	68.22	71.01	73.62	75.12	75.84	75.67	73.39	71.87
23	68.04	67.40	66.89	67.30	68.21	71.12	73.71	75.15	75.82	75.59	73.37	71.82
24	68.01	67.37	66.86	67.38	68.25	71.23	73.77	75.19	75.79	75.52	73.36	71.80
25	67.99	67.35	66.84	67.48	68.30	71.31	73.86	75.23	75.77	75.45	73.34	71.76
26	67.97	67.33	66.88	67.57	68.38	71.39	73.89	75.30	75.76	75.39	73.28	71.72
27	67.94	67.31	66.88	67.65	68.46	71.46	73.94	75.36	75.73	75.33	73.21	71.68
28	67.94	67.29	66.86	67.78	68.55	71.54	74.00	75.41	75.73	75.28	73.16	71.64
29	67.90		66.84	67.87	68.63	71.75	74.06	75.45	75.77	75.24	73.13	71.60
30	67.88		66.84	67.95	68.70	71.83	74.13	75.48	75.80	75.19	73.13	71.60
31	67.87		66.84		68.76		74.20	75.51		75.11		71.60

e Estimated.

k Interpolated.

45-15-4. City of Louisville. Fifth and Jefferson Sts. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 109 feet, cased to 109. Land-surface datum is 461.55 feet above msl. Highest water level 19.78 below lsd, June 17, 1937; lowest 79.62 below lsd, Nov. 15, 1954. Records available: 1937-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	76.58	Apr. 26	74.70	July 26	76.18	Oct. 18	79.28
25	76.30	May 17	74.68	Aug. 2	76.45	Nov. 1	79.52
Feb. 8	76.05	June 1	74.72	9	76.70	15	79.62
23	75.76	28	75.22	30	77.52	Dec. 13	79.50
Mar. 22	75.20	July 19	75.90	Sept. 20	78.38	27	79.32

45-15-36. Kentucky Hotel. Fifth and Walnut Sts., Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 104 feet, screen 84-104. Land-surface datum is 460 feet above msl. Highest water level 70.09 below lsd, Apr. 7, 1952; lowest 86.46 below lsd, Oct. 6, 1954. Records available: 1948-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	74.29	73.00	72.42	72.01	76.07	77.46	81.95	84.39	85.88	86.12	81.70	78.59
2	74.24	73.01	72.38	71.93	76.21	77.73	82.05	84.31	85.91	86.24	81.53	78.54
3	74.23	72.99	72.41	71.98	76.25	77.91	82.13	84.11	85.88	86.28	81.33	78.46
4	74.14	72.95	72.34	71.92	75.69	77.88	82.10	84.32	85.99	86.18	81.14	78.35
5	74.16	72.94	72.30	71.89	75.32	77.46	81.88	84.49	85.97	86.29	80.98	78.30
6	74.15	72.92	72.26	72.07	75.07	77.68	81.94	84.61	85.80	86.37	80.80	78.21
7	74.06	72.90	72.21	72.14	74.93	77.79	82.22	84.71	85.75	86.03	80.68	78.14
8	74.00	72.77	72.17	72.37	74.80	78.11	82.37	84.65	85.86	85.38	80.51	78.02
9	73.97	72.75	72.14	72.43	74.66	78.39	82.49	84.59	85.97	85.21	80.45	77.92
10	73.94	72.72	72.14	72.61	74.48	78.73	82.60	84.78	86.10	85.34	80.35	77.82

## 45-15-36--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	73.84	72.78	72.17	72.87	74.36	79.06	82.56	84.88	86.09	85.34	80.24	77.84
12	73.84	72.83	72.19	72.78	74.37	79.20	82.56	84.95	85.92	85.82	80.16	77.79
13	73.79	72.76	72.21	72.67	74.31	79.20	82.78	84.86	85.83	85.80	80.06	77.67
14	73.69	72.71	72.26	72.81	74.39	79.36	82.90	84.64	86.03	85.98	79.98	77.58
15	73.63	72.65	72.21	73.16	74.93	79.71	83.01	84.63	86.06	85.69	79.82	77.54
16	73.63	72.74	72.18	73.19	75.33	79.98	83.13	84.70	86.10	85.04	79.81	77.55
17	73.62	72.81	72.11	73.09	75.61	80.09	83.28	85.01	86.10	84.54	79.76	77.50
18	73.51	72.71	72.06	73.03	75.89	80.25	83.27	85.20	86.20	84.11	79.74	77.45
19	73.46	72.64	72.03	73.37	76.06	80.41	83.25	85.33	86.07	83.85	75.66	77.41
20	73.44	72.62	72.13	73.76	75.97	80.41	83.45	85.28	85.94	83.56	79.70	77.31
21	73.49	72.71	72.13	74.05	75.57	80.47	83.57	85.32	86.10	83.29	79.61	77.25
22	73.42	72.63	71.99	74.32	75.38	80.73	83.71	85.22	86.01	83.10	79.45	77.18
23	73.36	72.62	72.01	74.66	75.77	80.92	83.84	85.16	85.97	83.14	79.36	77.09
24	73.32	72.55	72.01	74.81	75.96	81.12	83.95	85.35	85.86	83.15	79.26	77.09
25	73.26	72.49	72.04	74.93	76.32	81.41	83.90	85.56	85.83	83.06	79.15	77.05
26	73.27	72.54	72.17	75.01	76.62	81.47	83.91	85.62	85.76	83.08	79.03	76.97
27	73.26	72.44	72.10	75.26	76.85	81.60	84.19	85.67	85.68	83.10	78.93	76.87
28	73.21	72.52	72.10	75.47	77.06	81.50	84.22	85.85	85.96	82.78	78.83	76.96
29	73.16		71.99	75.50	77.29	81.74	84.29	85.79	86.02	82.48	78.75	76.87
30	73.14		72.12	75.71	77.40	81.83	84.34	85.67	86.12	82.22	78.67	76.91
31	73.10		72.03		77.37		84.36	85.83		81.97		76.80

46-11-2. Rubber Reserve Co. Taylor Blvd. and Hathaway St., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 60 feet, screen 53-55. Land-surface datum is 458.66 feet above msl. Highest water level 45.70 below lsd, Sept. 26, 1950; lowest 52.25 below lsd, Mar. 1, 1945. Records available: 1945-54. Jan. 26, 48.92; Mar. 10, 49.38; Apr. 16, 49.77; June 2, 50.30; July 8, 50.69; Aug. 17, 51.03; Dec. 21, 52.09.

46-14-28. American Tobacco Co. 17th St. and Broadway, Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 12 inches, depth 113 feet, screen 93-113. Land-surface datum is 456.09 feet above msl. Highest water level 70.38 below lsd, Apr. 10, 1952; lowest 77.14 below lsd, Dec. 30, 1954. Records available: 1945, 1950-54. Jan. 28, 74.54; Mar. 11, 74.02; Apr. 28, 74.83; June 8, 75.24; July 20, 75.48; Aug. 20, 76.25; Dec. 30, 77.14.

47-12-1. City of Louisville. East of Dixie Highway at Ralph Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 96 feet, cased to 96. Land-surface datum is 462.93 feet above msl. Highest water level 34.54 below lsd, July 13, 1939; lowest 71.06 below lsd, Feb. 3, 1945. Records available: 1935-54. Jan. 26, 63.12; Mar. 10, 63.64; Apr. 27, 64.66; June 3, 65.04; July 8, 65.26; Aug. 19, 65.48; Dec. 30, 66.44.

47-12-2. City of Louisville. West of Seventh Street Rd., north of Yellowstone, Inc. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 102 feet, cased to 102. Land-surface datum is 453.59 feet above msl. Highest water level 24.51 below lsd, July 13, 1939; lowest 59.63 below lsd, Feb. 19, 1945. Records available: 1935-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	51.85	Apr. 28	53.39	July 8	53.84	Oct. 14	55.02
Mar. 9	52.42	June 3	53.55	Aug. 17	54.40	Dec. 20	55.53

47-12-3. City of Louisville. West end of Weyler Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 97 feet, cased to 97. Land-surface datum is 448.60 feet above msl. Highest water level 18.69 below lsd, Mar. 8, 1937; lowest 52.19 below lsd, Feb. 19, 1945. Records available: 1935-54. Jan. 26, 44.65; Mar. 9, 45.22; Apr. 16, 45.91; June 2, 46.56; July 8, 47.05; Aug. 17, 47.55; Dec. 21, 48.87.

47-12-4. Joseph E. Seagram & Sons Co. Seventh Street Rd. at Wathens Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet. Land-surface datum is 458.64 feet above msl. Highest water level 55.53 below lsd, Apr. 6, 1953; lowest 88.37 below lsd, Mar. 9, 1944. Records available: 1943-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	60.66	64.82	65.91	67.05	66.08	66.75	70.11	63.26	65.75	67.45	66.53	66.05
2	60.05	66.38	67.36	68.07	64.39	67.38	70.63	63.09	66.19	67.13	65.86	66.36
3	59.75	64.86	68.12	64.83	66.39	68.48	69.20	62.98	66.32	66.49	65.99	66.60
4	62.17	66.22	68.58	63.77	67.78	68.88	68.17	62.86	66.01	66.74	66.45	66.15
5	66.40	67.37	68.85	65.71	66.54	65.83	68.00	62.85	65.32	67.31	66.74	65.73



47-12-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	62.39	64.12	68.36	67.28	67.87	64.68	69.30	63.28	65.22	66.84	66.65	65.97
7	e64.7	62.80	65.24	65.66	68.63	67.22	69.45	64.31	65.77	67.01	66.36	65.98
8	e66.3	64.82	66.72	67.83	65.53	68.67	70.40	64.53	65.89	66.83	66.67	65.27
9	e62.9	66.60	68.21	68.48	64.40	67.64	70.78	65.15	65.98	66.36	66.73	65.78
10	e61.7	65.00	68.63	65.34	66.29	68.93	69.23	65.48	66.79	65.68	65.75	66.18
11	63.64	66.48	69.23	64.12	67.84	69.53	67.28	65.80	66.40	66.54	66.28	66.15
12	65.31	67.47	69.47	65.88	67.60	68.26	69.32	66.00	66.12	66.93	66.60	65.83
13	63.16	63.73	68.92	65.23	68.50	67.09	70.22	66.18	66.75	66.00	65.76	66.07
14	64.97	62.71	66.18	66.90	69.03	68.52	69.23	65.68	66.52	66.28	65.13	66.38
15	66.09	64.93	67.55	68.09	65.70	69.57	69.41	64.53	66.28	66.48	65.61	66.38
16	62.86	66.63	68.88	65.06	64.52	68.54	69.75	65.55	66.39	66.67	66.24	66.60
17	61.84	64.06	69.18	63.93	66.69	69.63	68.86	66.46	66.77	66.43	66.20	66.91
18	63.53	66.14	69.56	63.32	68.13	70.16	67.90	66.27	66.54	66.43	66.32	66.14
19	65.32	67.28	69.80	65.48	65.24	68.36	68.13	66.46	65.58	66.42	66.55	65.51
20	65.47	63.91	69.05	67.15	67.61	67.10	68.25	66.63	65.91	66.56	66.05	66.08
21	66.18	64.49	65.83	67.00	68.74	68.58	68.52	66.46	66.13	66.65	65.63	66.71
22	66.85	65.90	67.58	66.83	65.30	69.77	68.31	65.42	66.20	66.66	65.98	66.38
23	63.77	66.95	66.33	68.03	64.36	68.72	e66.4	66.56	66.41	66.09	66.07	66.59
24	62.47	67.06	64.63	65.04	66.46	69.92	e65.4	66.83	66.50	65.30	66.59	66.89
25	64.13	67.65	64.43	63.97	67.85	70.46	e64.9	66.76	66.15	65.68	65.81	65.99
26	65.93	68.13	67.04	65.75	65.58	68.56	64.56	66.43	66.78	66.64	65.90	65.38
27	65.32	65.36	64.27	66.41	68.23	66.82	64.26	66.71	66.38	66.71	65.88	66.27
28	66.51	63.78	63.46	66.29	69.44	68.81	63.99	66.48	66.76	66.78	65.74	66.79
29	66.87		65.45	67.41	66.55	69.92	63.78	65.41	66.88	66.98	66.09	66.23
30	63.96		66.99	67.99	65.05	69.16	63.59	65.98	66.84	66.98	66.32	66.62
31	62.68		64.83		64.27		63.43	66.11		66.58		67.05

e Estimated.

47-12-14. National Distillers Products Corp. Old Grand Dad Plant, Bernheim Lane. Drilled observation water-table well in glacial sand and gravel, diameter 8 inches, depth 97 feet. Land-surface datum is 454.37 feet above msl. Highest water level 52.06 below lsd, Apr. 22, 1953; lowest 79.4 below lsd, Sept. 20, 1943. Records available: 1941-54. Jan. 27, 56.93; Mar. 10, 58.38; Apr. 27, 58.56; June 4, 59.33; July 8, 60.46; Aug. 26, 59.53; Dec. 30, 60.00.

47-14-10. National Distillers Products Corp. Old Sunnybrook Plant, 28th St. and Broadway, Louisville. Drilled unused artesian and water-table well in Louisville limestone, diameter 6 inches, depth 204 feet. Land-surface datum is 452.89 feet above msl. Highest water level 63.27 below lsd, Apr. 11, 1944; lowest 73.10 below lsd, Oct. 6, 1948. Records available: 1944-54. Jan. 28, 68.92; Mar. 11, 69.02; Apr. 28, 69.30; June 8, 69.84; July 20, 70.42; Aug. 20, 70.75.

48-12-1. City of Louisville. East of Cane Run Rd., south of Millers Lane. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 117 feet, cased to 117. Land-surface datum is 453.61 feet above msl. Highest water level 29.50 below lsd, Aug. 12, 1937; lowest 63.00 below lsd, Dec. 17, 1954. Records available: 1935-54. Jan. 26, 59.85; Mar. 10, 60.30; Apr. 20, 60.88; June 2, 61.35; July 8, 61.60; Aug. 17, 61.79; Dec. 17, 63.00.

48-12-2. City of Louisville. East of Tucker Ave., south of Millers Lane. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 117 feet, cased to 117. Land-surface datum is 465.95 feet above msl. Highest water level 41.36 below lsd, Sept. 9, 1937; lowest 74.58 below lsd, Dec. 30, 1954. Records available: 1935-54. Jan. 26, 71.04; Mar. 10, 71.54; Apr. 19, 72.26; June 3, 72.92; July 8, 72.89; Aug. 17, 73.20; Dec. 30, 74.58.

48-14-1. City of Louisville. 38th St. and Greenwood Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 93 feet, cased to 93. Land-surface datum is 441.62 feet above msl. Highest water level 28.31 below lsd, Sept. 16, 1939; lowest 58.49 below lsd, Dec. 17, 1954. Records available: 1939-54. Jan. 28, 55.60; Mar. 11, 55.97; Apr. 28, 56.35; June 4, 56.69; July 8, 56.96; Aug. 20, 57.37; Dec. 17, 58.49.

48-15-2. Klarer Provision Co. 210 Amy Ave., Louisville. Drilled unused artesian well in Louisville limestone, diameter 8 inches, depth 80 feet. Land-surface datum is 454.75 feet above msl. Highest water level 44.80 below lsd, July 18, 1951; lowest 50.12 below lsd, Aug. 20, 1954. Records available: 1948-54. Jan. 28, 49.00; Mar. 11, 49.23; Apr. 28, 49.54; June 8, 49.78; July 13, 49.93; Aug. 20, 50.12.

49-10-1. T. W. Blackwell. Dixie Highway at Rockford Lane. Driven unused water-table well in glacial sand and gravel, diameter 2½ inches, depth 39 feet, screen 37-39. Land-surface datum is 453.97 feet above msl. Highest water level 31.95 below lsd, May 20, 1952; lowest 39.75 below lsd, Dec. 17, 1954. Records available: 1944-54. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	36.73	Apr. 20	37.57	July 7	38.44	Oct. 8	39.20
Mar. 9	37.14	June 2	38.00	Aug. 19	38.86	Dec. 17	39.75

49-13-22. Bond Bros. South of Bells Lane. Drilled unused water-table well in glacial sand and gravel, diameter 8 inches, depth 170 feet, screen 74-114. Land-surface datum is 449.99 feet above msl. Highest water level 40 below lsd (reported by company), 1933; lowest 81.26 below lsd, Feb. 9, 1945. Records available: 1933-38, 1942-54. Jan. 27, 69.95; Mar. 11, 69.26; Apr. 27, 69.89; June 4, 70.31; July 8, 71.25; Aug. 20, 71.77; Dec. 17, 71.59.

49-13-24. B. F. Goodrich Co. Bells Lane. Drilled observation water-table well in glacial sand and gravel, diameter 2 inches, depth 99 feet. Land-surface datum is 452.55 feet above msl. Highest water level 67.49 below lsd, June 16, 1949; lowest 95.00 below lsd, Feb. 9, 1945. Records available: 1943-54.

Jan. 27	81.50	May 19	82.75	July 9	84.45	Oct. 18	84.70
Mar. 11	79.88	June 4	83.90	Aug. 20	85.00	Dec. 17	81.98
Apr. 27	81.12						

50-10-2. Rubber Reserve Co. Rockford Lane, west of Mills Creek. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 94 feet, screen 90-92. Land-surface datum is 442.96 feet above msl. Highest water level 23.17 below lsd, May 10, 1952; lowest 30.57 below lsd, Dec. 27, 1954. Records available: 1945-54.

Jan. 4	27.46	Apr. 5	28.30	July 6	29.17	Oct. 4	29.94
11	27.53	12	28.37	12	29.22	11	30.01
18	27.60	19	28.43	19	29.30	18	30.07
25	27.66	26	28.48	26	29.37	25	29.89
Feb. 1	27.70	May 3	28.55	Aug. 2	29.44	Nov. 1	30.09
8	27.76	10	28.61	9	29.50	8	30.13
15	27.83	17	28.66	16	29.55	15	30.25
23	27.91	24	28.74	23	29.60	22	30.29
Mar. 1	27.98	June 1	28.82	30	29.67	29	30.36
8	28.04	7	28.87	Sept. 7	29.73	Dec. 6	30.41
15	28.11	14	28.93	13	29.79	13	30.46
22	28.16	21	29.00	20	29.83	20	30.49
29	28.23	28	29.09	27	29.88	27	30.57

50-12-16. Rubber Reserve Co. Kramers Lane and Camp Ground Rd. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 112 feet, screen 108-110. Land-surface datum is 445.58 feet above msl. Highest water level 49.14 below lsd, Mar. 21, 1950; lowest 66.15 below lsd, Dec. 17, 1954. Records available: 1945-54.

Jan. 27	63.68	Apr. 20	63.55	July 7	63.95	Oct. 20	65.64
Mar. 10	63.64	June 2	63.69	Aug. 19	64.25	Dec. 17	66.15

50-13-58. National Carbide Corp. Bells Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 99 feet. Land-surface datum is 450.29 feet above msl. Highest water level 57.73 below lsd, May 3, 1948; lowest 85.31 below lsd, Aug. 31, 1953. Records available: 1945, 1947-54.

Jan. 5	81.21	Mar. 8	79.98	Apr. 29	78.66	July 8	78.62
12	81.12	11	79.68	May 6	78.62	26	78.97
20	81.01	15	79.58	12	78.58	Aug. 2	79.06
27	80.90	24	79.34	19	78.54	11	79.17
Feb. 2	80.60	31	79.10	June 4	78.39	26	79.34
9	80.42	Apr. 7	78.96	11	78.37	Oct. 18	80.14
18	80.52	14	78.74	18	78.35	Dec. 17	79.76
25	80.22	21	78.69	29	78.72		

51-10-1. Rubber Reserve Co. Rockford Lane, east of Cane Run Rd. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 64 feet, screen 60-62. Land-surface datum is 444.18 feet above msl. Highest water level 29.17 below lsd, July 12, 1951; lowest 36.76 below lsd, Dec. 17, 1954. Records available: 1945-54.

Jan. 26	34.03	Apr. 20	34.78	July 7	35.46	Oct. 8	36.23
Mar. 9	34.36	June 2	35.15	17	35.80	Dec. 17	36.76

51-13-1. Rubber Reserve Co. Camp Ground Rd. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 107 feet, screen 103-105. Land-surface datum is 440.20 feet above msl. Highest water level 22.66 below lsd, Apr. 21, 1948; lowest 60.95 below lsd, Nov. 12, Dec. 11, 1953. Records available: 1945-54. Feb. 1, 56.97; Mar. 10, 51.56; Apr. 29, 51.66; June 7, 57.67; July 12, 60.80; Aug. 23, 58.91.

52-7-2. Rubber Reserve Co. Johnstontown Rd., west of Dixie Highway. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet, screen 99-101. Land-surface datum is 428.91 feet above msl. Highest water level 33.25 below lsd, July 31, 1951; lowest 41.56 below lsd, Dec. 28, 1954. Records available: 1945-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	38.36	Apr. 15	39.19	July 7	39.94	Sept. 30	40.74
Mar. 9	38.80	May 27	39.59	Aug. 17	40.32	Dec. 28	41.56

52-11-3. Rubber Reserve Co. Ohio River bank at Lees Lane. Drilled observation artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 96 feet, screen 92-94. Land-surface datum is 428.45 feet above msl. Highest water level 14.74 below lsd, Apr. 26, 1948; lowest 56.36 below lsd, Nov. 14, 1945. Records available: 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	37.67	Apr. 20	36.34	July 7	40.12	Oct. 19	40.98
Mar. 9	35.68	June 2	38.76	Aug. 19	40.77	Dec. 17	41.42

52-11-5. Rubber Reserve Co. West end of Lees Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 117 feet, screen 113-115. Land-surface datum is 450.40 feet above msl. Highest water level 39.84 below lsd, Apr. 24, 1948; lowest 63.71 below lsd, Nov. 11, 1945. Records available: 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	59.30	Mar. 9	58.20	June 2	60.45	Aug. 19	62.45
Feb. 18	60.64	Apr. 20	58.36	July 7	61.76	Dec. 17	63.20

52-11-7. Rubber Reserve Co. West end of Lees Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 115 feet, screen 111-113. Land-surface datum is 450.80 feet above msl. Highest water level 42.50 below lsd, Mar. 17, 1945; lowest 63.43 below lsd, Dec. 17, 1954. Records available: 1945-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	59.43	Mar. 9	59.24	June 2	60.12	Aug. 19	62.20
Feb. 18	60.15	Apr. 20	59.12	July 7	61.43	Dec. 17	63.43

52-11-21. Rubber Reserve Co. Lees Lane and Camp Ground Rd. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet, screen 99-101. Land-surface datum is 435.82 feet above msl. Highest water level 28.36 below lsd, May 9, 1951; lowest 41.90 below lsd, Dec. 17, 1954. Records available: 1945-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	38.30	Apr. 20	39.36	July 7	39.92	Oct. 8	41.20
Mar. 9	38.87	June 2	39.53	Aug. 19	40.55	Dec. 17	41.90

52-12-2. Rubber Reserve Co. Bramer Lane at Ohio River. Drilled observation artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 101 feet, screen 97-99. Land-surface datum is 434.30 feet above msl. Highest water level 21.49 below lsd, Apr. 24, 1948; lowest 55.34 below lsd, Oct. 13, 1954. Records available: 1945-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.65	49.89	50.72	48.96	46.84	51.71	54.05	53.79	54.49	55.03	52.22	53.38
2	50.65	50.04	50.68	48.56	46.86	51.87	54.12	53.90	54.57	55.07	52.48	53.30
3	50.68	50.16	50.65	48.27	46.83	51.97	54.15	54.01	54.60	55.12	52.50	53.18
4	50.72	50.20	50.26	47.89	46.56	52.12	54.17	54.06	54.44	55.16	e52.6	53.12
5	50.74	51.00	49.30	47.65	46.38	52.22	54.21	54.13	54.34	55.16	e52.7	53.05
6	50.81	51.30	47.94	47.60	46.34	52.29	54.24	54.16	54.22	55.22	e52.8	53.20
7	50.85	51.50	46.77	47.66	46.51	52.36	54.27	54.12	54.03	55.23	e52.9	53.27
8	50.80	51.57	46.13	47.97	46.73	52.49	54.32	53.96	53.98	55.22	53.03	53.32
9	50.75	51.79	45.88	48.12	46.98	52.57	54.38	53.85	53.89	55.21	53.08	53.47
10	50.64	51.96	46.01	48.32	47.08	52.65	54.34	53.87	53.82	55.22	53.11	53.62
11	50.72	52.11	46.32	48.42	47.16	52.68	54.32	54.12	53.81	55.20	53.07	53.72
12	50.93	52.30	46.79	48.47	47.33	52.77	54.23	54.15	53.80	55.26	53.07	53.77
13	50.93	52.19	47.31	48.38	47.55	52.81	54.24	54.20	53.79	55.32	53.12	53.79
14	50.93	52.25	47.69	48.39	47.80	52.77	54.27	.....	53.88	55.22	53.20	53.77
15	50.97	52.32	47.93	48.55	48.02	52.74	54.37	.....	53.86	55.13	53.24	53.82
16	51.11	52.27	47.92	48.66	48.23	52.97	54.39	54.25	53.86	55.12	53.28	53.92
17	51.07	52.30	47.84	48.57	48.55	53.07	54.39	54.21	53.86	54.97	53.32	53.89
18	50.67	52.30	47.77	48.00	48.79	53.05	54.43	54.12	53.91	54.81	53.34	53.78
19	50.49	52.17	47.82	47.47	49.01	52.92	54.35	54.09	53.88	53.96	53.45	53.49
20	50.09	52.05	48.09	46.92	49.17	52.91	54.36	54.14	53.89	52.25	53.47	53.11

## 52-12-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	49.76	52.04	48.22	46.22	49.39	52.89	54.41	54.14	53.93	50.47	53.48	52.71
22	49.56	51.95	48.47	45.55	49.72	53.00	54.18	54.22	54.03	49.22	53.51	52.30
23	49.54	51.75	48.85	45.06	50.00	53.20	53.66	54.27	54.16	48.47	53.45	51.98
24	49.82	51.62	49.13	44.85	50.24	53.32	52.98	54.27	54.25	48.26	53.41	51.72
25	49.82	51.36	49.35	44.87	50.38	53.41	52.28	54.35	54.42	48.42	53.46	51.55
26	49.48	51.16	49.49	45.08	50.58	53.50	51.84	54.44	54.55	48.88	53.47	51.57
27	49.15	50.98	49.56	45.40	50.79	53.62	51.91	54.43	54.67	49.50	53.39	51.77
28	48.93	50.88	49.66	45.79	51.05	53.74	52.72	54.37	54.76	50.32	53.34	51.92
29	49.01		49.72	46.12	51.27	53.83	53.14	54.27	54.87	51.22	53.42	51.90
30	49.48		49.72	46.54	51.43	53.92	53.46	54.16	54.93	51.80	53.44	52.05
31	49.73		49.40		51.59		53.64	54.27		52.04		51.72

e Estimated.

53-6-1. Rubber Reserve Co. Bethany Lane, east of Lower River Rd. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 92 feet, screen 88-90. Land-surface datum is 433.89 feet above msl. Highest water level 23.96 below lsd, May 4, 1951; lowest 36.17 below lsd, Dec. 30, 1954. Records available: 1945-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.39	33.52	33.87	33.73	33.57	33.53	34.18	34.85	35.19	35.54	35.68	35.84
2	33.39	33.57	33.87	33.65	33.51	33.58	34.21	34.86	35.20	35.54	35.68	35.85
3	33.43	33.60	33.86	33.73	33.54	33.56	34.23	34.90	35.23	35.55	35.66	35.85
4	33.42	33.58	33.92	33.66	33.53	33.64	34.26	34.92	35.24	35.56	35.66	35.85
5	33.42	33.66	33.84	33.63	33.50	33.65	34.28	34.92	35.25	35.57	35.67	35.86
6	33.44	33.68	33.83	33.64	33.48	33.64	34.23	34.93	35.26	35.60	35.66	35.87
7	33.45	33.69	33.79	33.64	33.47	33.64	34.33	34.93	35.28	35.60	35.67	35.92
8	33.45	33.53	33.85	33.74	33.51	33.66	34.38	34.93	35.29	35.60	35.68	35.91
9	33.46	33.60	33.77	33.64	33.48	33.68	34.40	34.94	35.30	35.60	35.68	35.91
10	33.48	33.63	33.81	33.63	33.48	33.69	34.41	34.94	35.32	35.60	35.68	35.94
11	33.48	33.72	33.81	33.64	33.45	33.70	34.43	34.96	35.33	35.60	35.68	35.94
12	33.52	33.75	33.83	33.68	33.45	33.72	34.44	34.97	35.35	35.62	35.68	35.94
13	.....	33.64	33.83	33.58	33.44	33.74	34.46	34.98	35.35	35.64	35.68	35.95
14	.....	33.65	33.89	33.58	33.44	33.76	34.48	34.98	35.37	35.64	35.69	35.95
15	.....	33.69	33.88	33.57	33.43	33.78	34.51	34.98	35.37	35.64	35.70	36.00
16	.....	33.67	33.85	33.54	33.42	33.80	34.54	34.98	35.38	35.67	35.71	35.97
17	.....	33.77	33.77	33.65	33.41	33.84	34.55	35.00	35.39	35.68	35.73	35.98
18	.....	33.74	33.72	33.56	33.40	33.86	34.57	35.00	35.40	35.69	35.73	36.00
19	.....	33.71	33.64	33.64	33.41	33.87	34.59	35.02	35.41	35.69	35.73	36.03
20	.....	33.64	33.81	33.63	33.42	33.88	34.62	35.03	35.43	35.69	35.75	36.03
21	.....	33.76	33.82	33.57	33.42	33.91	34.64	35.05	35.45	35.69	35.76	36.03
22	.....	33.80	33.70	33.56	33.41	33.93	34.68	35.06	35.47	35.70	35.77	36.03
23	.....	33.69	33.73	33.58	33.42	33.97	34.68	35.07	35.48	35.71	35.76	36.03
24	.....	33.73	33.71	33.58	33.42	33.99	34.71	35.08	35.48	35.71	35.77	36.07
25	.....	33.73	33.66	33.57	33.43	34.00	34.73	35.08	35.48	35.69	35.80	36.05
26	33.61	33.83	33.80	33.55	33.46	34.03	34.75	35.10	35.48	35.68	35.82	36.05
27	33.67	33.74	33.68	33.51	33.48	34.07	34.76	35.13	35.49	35.68	35.81	36.05
28	33.67	33.85	33.64	33.58	33.47	34.10	34.77	35.14	35.51	35.67	35.83	36.03
29	33.56		33.64	33.56	33.53	34.13	34.80	35.15	35.53	35.66	35.86	35.88
30	33.65		33.73	33.57	33.58	34.15	34.83	35.18	35.54	35.68	35.85	36.17
31	33.65		33.70		33.54		34.84	35.19		35.68		36.04

53-10-1. Louisville Gas & Electric Co. Cane Run and Lower River Rds. Dug and driven unused water-table well in glacial sand and gravel, diameter 48 to 2 inches, depth 56 feet, screen 54-56. Land-surface datum is 438.72 feet above msl. Maximum reflects local surface seepage. Highest water level 22.14 below lsd, Apr. 19, 1948; lowest 46.80 below lsd, Sept. 30, 1954. Records available: 1943-54. Jan. 26, 45.02; Mar. 9, 43.89; Apr. 15, 43.36; May 27, 43.62; July 7, 45.67; Aug. 17, 46.16; Sept. 30, 46.80.

Johnson County

8245-3745-93. Albert Skauge. Lat. 37°48', long. 82°46'. Drilled unused water-table well in alluvial sand, diameter 6 inches, depth 79 feet, reported cased to 82. Land-surface datum is about 619 feet above msl. Highest water level 28.09 below lsd, Mar. 25, 1952; lowest 47.80 below lsd, Nov. 3, 1952. Records available: 1949-54.

8245-3745-93--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.89	43.90	45.42	43.17	44.36	44.15	46.24	46.42	46.67	46.73	46.94	45.68
2	46.82	44.08	45.10	43.04	44.32	44.39	46.31	46.43	46.65	46.79	47.05	45.76
3	47.04	44.38	44.28	43.30	44.32	44.42	46.35	46.42	46.66	46.81	46.86	45.66
4	46.82	44.41	43.00	43.25	44.32	44.67	46.43	46.43	46.76	46.84	46.76	45.77
5	46.98	44.42	42.28	43.42	44.17	44.79	46.45	46.28	46.77	46.87	46.77	45.87
6	47.03	44.64	42.54	43.49	44.11	44.90	46.56	46.26	46.78	46.95	46.63	45.98
7	46.98	44.57	42.65	43.67	44.08	44.92	46.52	46.26	46.82	46.97	46.65	45.60
8	46.91	44.53	42.92	43.99	43.74	45.10	46.64	46.25	46.85	46.82	46.63	45.25
9	46.99	44.78	42.88	43.87	43.57	45.25	46.42	46.32	46.86	46.84	46.59	45.18
10	46.96	44.78	42.63	43.86	43.66	45.33	45.69	46.21	46.85	46.88	46.60	45.26
11	46.96	45.14	42.65	43.90	43.64	45.50	45.63	46.33	46.98	46.91	46.53	45.15
12	47.03	45.08	42.62	44.10	43.85	45.11	45.68	46.40	47.02	46.99	46.55	45.07
13	46.65	45.00	42.75	44.00	43.96	44.91	45.80	46.52	46.99	47.03	46.50	45.04
14	46.52	45.21	43.03	44.04	44.14	44.99	45.93	46.57	47.03	46.99	46.56	45.07
15	46.38	45.35	42.73	44.22	44.12	45.08	46.13	46.62	47.05	46.96	46.59	44.92
16	45.25	45.33	42.42	44.19	42.62	45.02	46.21	46.63	47.07	47.09	46.58	44.89
17	43.70	45.60	42.39	44.48	42.01	45.08	46.18	46.74	47.09	47.00	46.64	44.63
18	43.77	45.50	42.64	44.30	42.35	45.01	46.18	46.69	47.10	47.09	46.63	44.74
19	44.12	45.52	42.78	44.25	42.58	44.90	46.26	46.02	47.10	47.08	46.59	44.64
20	44.25	45.53	43.25	44.05	42.42	44.90	46.30	46.10	47.10	47.00	46.53	44.62
21	44.38	45.72	43.43	43.99	42.36	45.03	46.36	46.20	46.73	46.89	46.47	44.59
22	44.15	45.78	43.35	44.06	42.44	45.20	46.42	46.21	46.54	46.93	46.37	44.54
23	42.45	45.45	43.62	44.17	42.72	45.41	46.45	46.25	46.39	46.93	46.28	44.60
24	42.02	45.36	43.72	44.24	42.93	45.52	45.93	46.28	46.38	46.89	46.23	44.91
25	42.41	45.20	43.75	44.26	43.20	45.59	45.80	46.31	46.31	46.92	46.28	44.99
26	42.70	45.52	44.03	44.27	43.50	45.69	45.84	46.39	46.37	47.00	46.22	45.08
27	43.20	45.20	43.55	44.27	43.60	45.87	45.92	46.48	46.47	47.01	45.98	45.13
28	43.25	45.41	43.12	44.40	43.71	45.96	46.07	46.45	46.55	46.93	46.00	45.12
29	43.42		43.10	44.27	43.76	46.05	46.20	46.50	46.65	47.01	46.28	45.07
30	43.73		43.35	44.32	44.07	46.13	46.31	46.50	46.71	47.03	46.02	43.67
31	43.80		43.14		44.12		46.36	46.64		47.01		41.97

e Estimated.

h Tape measurement.

8245-3745-404. Kentucky Water Co. Lat. 37°46', long. 82°45'. Drilled unused artesian and water-table well in Breathitt formation, diameter 6 inches, depth 115 feet. Highest water level 25.26 below lsd, Mar. 24, 1952; lowest 28.75 below lsd, Nov. 29, 1953. Records available: 1951-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.39	26.93	27.57	27.36	27.37	27.21	28.28	28.52	28.39	28.37	28.32	27.59
2	28.34	26.98	27.60	27.24	27.37	27.27	28.30	.....	28.41	28.33	28.33	27.59
3	28.48	27.00	27.33	e27.24	27.28	27.20	28.29	.....	28.37	28.30	e28.37	27.56
4	28.37	27.01	27.18	27.23	27.29	.....	28.30	28.37	28.43	28.30	28.26	27.55
5	28.32	27.08	26.89	27.20	27.23	.....	28.27	28.26	28.45	28.30	28.32	27.57
6	28.38	27.09	26.87	27.15	27.14	.....	28.32	28.28	28.43	28.37	28.27	27.66
7	28.43	27.21	26.84	27.18	27.02	27.90	28.29	28.28	28.41	28.48	28.28	27.53
8	28.42	27.08	.....	27.26	26.96	27.92	28.31	28.23	28.47	28.39	28.31	27.36
9	28.37	27.02	26.69	27.37	26.85	27.92	28.31	28.24	28.49	28.34	28.30	27.25
10	28.34	27.06	26.72	27.37	26.85	27.88	28.31	28.25	28.42	28.27	28.32	e27.34
11	28.25	27.21	26.76	27.36	26.85	27.92	28.33	28.25	28.51	28.26	28.29	e27.36
12	28.40	27.46	26.84	27.42	26.85	27.93	28.32	28.28	28.60	26.29	e28.27	27.26
13	28.37	27.41	26.86	27.44	26.85	27.96	28.32	28.29	28.57	28.39	28.22	27.15
14	28.21	27.36	26.99	27.34	26.91	27.93	28.33	28.32	28.55	28.34	28.17	27.09
15	28.01	27.40	27.12	27.36	26.97	27.87	28.43	28.29	28.55	28.28	28.17	27.01
16	27.80	27.38	27.21	27.33	27.00	27.93	28.50	28.27	28.56	28.33	28.12	e27.25
17	27.66	27.54	27.21	27.35	27.03	27.97	28.47	28.33	28.59	28.44	28.12	27.07
18	27.40	27.58	27.14	27.37	27.06	28.01	28.46	28.29	28.56	28.47	28.15	27.01
19	27.34	27.57	27.01	27.37	27.12	28.00	28.48	28.25	28.53	28.51	28.10	26.99
20	27.26	27.46	27.10	27.40	27.19	28.01	28.48	28.20	28.48	28.43	27.98	27.03
21	27.30	27.52	27.31	27.38	.....	28.02	28.46	28.25	28.34	28.36	27.90	27.04
22	e27.10	27.65	27.37	27.32	.....	28.01	28.40	28.27	28.40	28.43	27.81	27.00
23	26.96	27.59	27.30	27.32	27.20	28.06	28.40	28.28	28.39	28.47	27.75	26.93
24	26.85	27.56	27.36	27.33	27.20	28.12	28.41	28.26	28.37	28.46	27.61	27.17
25	26.83	27.57	27.31	27.34	27.21	28.12	28.45	28.24	28.30	28.40	27.62	27.25

## 8245-3745-404--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	26.82	27.64	27.42	27.36	e27.28	28.12	28.48	28.27	28.27	28.35	27.73	27.30
27	26.82	27.60	27.45	27.34	e27.28	28.16	28.48	28.29	28.28	28.30	e27.77	27.29
28	26.90	27.60	27.36	27.27	27.24	28.24	28.47	28.32	28.29	28.32	27.65	27.25
29	26.85		27.32	27.33	e27.29	28.26	28.49	28.31	28.35	e28.21	27.58	26.92
30	26.92		27.27	27.34	27.27	28.28	28.55	28.25	28.39	e28.28	27.85	26.88
31	27.04		27.31		.....		28.54	28.32		e28.32		26.65

e Estimated.

8250-3750-24. Pluney Blevins. Lat. 37°51', long. 82°51'. Drilled unused water-table well in sandstone of Lee formation, diameter 6 inches, depth 51 feet. Highest water level 26.6 below lsd, Mar. 22, 1952; lowest 30.46 below lsd, Jan. 12, 1954. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.35	29.73	29.66	29.37	29.34	29.32	29.82	.....	29.90	29.63	29.72	29.42
2	30.32	29.72	29.58	29.28	29.31	29.37	29.81	.....	29.90	29.65	29.83	29.45
3	30.45	29.70	29.35	29.39	29.25	29.30	29.78	29.77	29.84	29.62	29.79	29.44
4	30.33	29.64	e29.29	29.37	29.32	29.45	29.76	29.80	29.94	29.65	29.68	29.44
5	30.29	29.72	e29.21	29.35	29.29	29.55	29.74	29.73	29.93	29.64	29.78	29.44
6	30.36	29.73	29.22	29.30	29.29	29.53	29.81	29.81	29.91	29.76	29.63	29.63
7	30.38	.....	29.17	29.33	29.15	29.50	29.76	29.82	29.89	29.82	29.72	29.38
8	30.35	.....	29.18	29.44	28.84	29.50	29.72	29.79	29.80	29.69	29.76	29.27
9	30.33	29.64	29.06	29.49	28.88	29.41	29.76	29.67	29.78	29.68	29.77	29.18
10	30.34	29.68	29.08	29.41	29.01	29.43	29.77	29.70	29.76	29.64	29.80	29.30
11	30.30	29.80	29.15	29.37	29.11	29.41	29.80	29.78	29.86	29.65	29.73	29.35
12	30.42	29.92	29.22	29.48	29.11	29.41	29.77	29.79	29.93	29.70	29.72	29.21
13	30.34	29.77	29.17	29.40	29.15	29.44	29.80	29.83	29.88	29.80	29.69	29.10
14	30.27	29.76	29.19	29.32	29.20	29.44	29.86	29.83	29.86	29.70	29.70	28.98
15	30.19	29.78	29.26	29.34	29.24	29.43	29.91	29.80	29.88	29.62	29.71	28.89
16	30.07	29.74	29.30	29.27	29.24	29.45	29.85	29.79	29.89	29.73	29.71	e29.11
17	30.15	.....	29.26	29.36	29.26	29.46	29.83	29.86	29.90	29.81	29.74	28.92
18	30.00	e29.78	29.18	29.28	29.27	29.48	29.86	29.74	29.89	29.86	29.73	28.65
19	30.06	29.80	29.08	29.38	29.31	29.49	29.87	29.76	29.84	29.86	29.67	28.75
20	30.05	29.69	29.21	29.39	29.36	29.51	29.67	29.79	29.75	29.78	29.54	28.82
21	29.97	e29.81	29.42	29.32	29.49	29.52	29.76	29.80	29.59	29.74	29.64	28.87
22	29.84	.....	29.44	29.33	29.48	29.54	29.81	29.86	29.70	29.85	29.63	28.86
23	29.87	29.77	29.35	29.32	29.51	.....	29.86	29.85	29.69	29.87	29.53	28.77
24	29.83	29.74	29.40	29.33	29.49	.....	29.89	29.83	29.70	29.85	29.49	29.05
25	29.81	29.75	29.33	29.32	29.48	.....	29.89	29.81	29.66	29.78	29.62	29.13
26	29.75	e29.80	29.45	29.28	29.40	.....	29.92	29.84	29.63	29.80	29.63	29.14
27	29.74	29.74	29.38	29.24	29.38	.....	29.92	29.81	29.66	29.76	29.39	29.13
28	29.85	29.77	29.32	29.31	29.32	.....	29.96	29.80	29.70	29.75	29.38	29.06
29	29.75		29.29	29.27	29.32	29.75	29.94	29.79	29.76	29.69	e29.69	28.88
30	29.81		29.29	29.31	29.49	29.75	29.93	29.74	29.76	29.77	h29.64	28.63
31	29.86		29.23		29.45		.....	29.83		29.82		28.62

e Estimated.

h Tape measurement.

## Kenton County

8430-3900-17. C. J. Harris. Lat. 39°00', long. 84°33'. Dug unused water-table well in shaly limestone of Maysville group, diameter 5 feet, depth 35 feet. Land-surface datum is 840 feet above msl. Highest water level 21.15 below lsd, Dec. 21, 1951; lowest 30.94 below lsd, Jan. 14, 1954. Records available: 1950-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.91	e30.42	28.75	26.17	26.89	28.82	29.15	29.52	27.25	29.19	.....	.....
2	30.92	30.31	28.57	26.18	27.01	28.83	29.20	29.53	27.24	29.23	.....	.....
3	30.92	30.23	28.21	26.26	27.06	28.82	29.22	29.52	27.24	29.26	.....	.....
4	30.92	30.16	e27.98	26.34	27.19	28.81	29.22	29.54	27.31	29.29	.....	.....
5	30.93	30.10	27.78	26.37	27.27	28.85	29.16	29.54	27.43	29.32	.....	.....
6	30.93	e30.07	27.59	26.38	27.33	28.89	29.12	29.54	27.56	29.37	.....	.....
7	30.93	e30.04	e27.47	26.42	27.37	28.90	29.02	29.54	27.67	29.45	.....	28.96
8	30.93	30.02	27.30	26.50	27.43	28.91	28.98	29.53	27.78	29.52	27.42	.....
9	30.93	29.95	27.23	26.65	27.47	28.90	28.97	29.51	27.90	29.55	.....	.....
10	30.93	29.89	27.14	26.73	27.54	28.90	28.97	29.49	28.01	29.56	.....	.....

## 8430-3900-17--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	30.93	29.85	27.11	26.81	27.58	28.90	28.97	29.49	28.11	29.56	.....	.....
12	30.92	29.86	27.09	26.95	27.61	28.90	28.97	29.51	28.25	29.56	.....	.....
13	30.93	29.87	e26.87	27.10	27.68	28.89	28.96	29.52	28.38	29.60	.....	.....
14	30.94	29.86	e26.67	27.14	27.73	28.89	28.95	29.52	28.46	29.62	.....	.....
15	30.93	29.84	26.46	27.18	27.81	28.89	28.95	29.52	28.56	29.52	.....	.....
16	30.93	29.80	26.47	27.15	27.87	28.88	29.02	29.51	28.65	29.41	.....	.....
17	30.93	29.78	26.49	26.10	27.94	28.89	29.08	29.52	28.71	29.35	.....	.....
18	30.93	29.79	26.47	.....	28.03	28.91	29.10	29.53	28.79	29.27	.....	.....
19	30.92	29.79	26.37	e25.60	28.10	28.93	29.10	29.53	28.82	29.14	.....	.....
20	30.92	29.77	26.00	25.99	28.18	28.92	29.14	29.31	28.86	28.99	.....	.....
21	30.89	29.69	e25.95	26.19	28.28	28.92	29.16	29.02	28.89	28.90	.....	.....
22	30.85	29.63	25.92	26.27	28.37	28.91	29.20	28.75	28.90	28.89	.....	.....
23	30.83	29.55	25.98	26.36	28.45	28.92	29.24	28.54	29.01	28.90	.....	.....
24	30.81	29.43	26.10	26.43	28.51	28.96	29.28	28.38	29.06	28.90	.....	.....
25	30.80	29.30	26.00	26.47	28.56	28.98	29.33	28.22	29.06	28.88	.....	.....
26	30.77	29.15	26.15	26.51	28.61	28.98	29.38	28.16	29.06	28.79	.....	.....
27	30.70	29.08	26.18	26.50	28.66	28.99	29.42	28.13	29.06	28.60	.....	.....
28	30.64	28.95	26.10	26.54	28.67	29.05	29.44	28.04	29.06	28.18	.....	.....
29	30.59	.....	26.09	26.64	28.68	29.08	29.45	27.78	29.09	27.84	.....	.....
30	30.51	.....	e26.13	26.74	28.75	29.11	29.48	27.44	29.14	.....	.....	.....
31	30.48	.....	e26.15	.....	28.82	.....	29.51	27.28	.....	.....	.....	.....

e Estimated.

8430-3900-103. Summe & Ratterman. 224 East 20th St., Covington. Lat. 39°04', long. 84°30'. Drilled unused water-table well in alluvium, diameter 6 inches, depth 150 feet. Land-surface datum is about 515 feet above msl. Highest water level 46.31 below lsd, Aug. 7, 1951; lowest 49.97 below lsd, Aug. 12, 1954. Records available: 1951-54. Recording gage removed Aug. 18, 1954. Measurement discontinued.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	48.84	48.78	48.87	49.41	49.43	.....	49.80	49.88
2	48.78	48.77	48.98	49.30	49.35	.....	49.79	49.80
3	48.95	48.79	49.02	49.35	49.30	.....	49.76	49.83
4	48.91	48.74	49.12	49.40	49.36	.....	49.69	49.87
5	48.77	48.86	49.10	49.34	49.29	.....	49.69	49.82
6	48.85	48.94	49.08	49.28	49.28	.....	49.72	49.89
7	48.86	49.06	.....	49.31	49.24	.....	49.65	49.91
8	48.87	48.80	49.04	49.51	49.33	.....	49.76	49.82
9	48.79	48.81	48.88	49.51	49.30	.....	49.79	49.87
10	48.89	48.80	48.95	49.45	49.38	.....	49.80	49.87
11	e48.81	48.97	48.96	49.44	49.32	.....	49.81	49.95
12	49.03	49.18	48.98	49.60	49.38	.....	49.78	49.96
13	49.10	49.00	48.93	49.47	49.37	.....	49.80	49.97
14	48.90	48.89	49.08	49.35	49.39	.....	49.80	49.95
15	48.83	48.91	49.21	49.36	49.41	.....	49.89	49.90
16	48.86	48.81	49.30	49.26	49.38	.....	49.96	49.89
17	49.06	49.02	49.27	49.39	49.38	.....	49.91	49.95
18	48.90	49.02	49.05	49.38	49.39	.....	49.83	49.92
19	48.91	48.97	48.94	49.44	49.42	.....	49.86	.....
20	48.80	48.77	49.01	49.51	49.45	.....	49.84	.....
21	49.02	48.85	49.27	49.45	49.51	49.63	49.85	.....
22	48.96	49.01	49.22	49.40	49.52	49.59	49.87	.....
23	48.97	48.86	49.22	49.39	49.53	49.69	49.90	.....
24	48.89	48.84	49.22	49.40	49.51	49.68	49.92	.....
25	48.94	48.81	49.08	49.38	49.50	49.64	49.94	.....
26	48.89	48.89	49.31	49.33	49.52	49.64	49.96	.....
27	48.91	48.78	49.30	49.24	49.46	49.71	49.90	.....
28	49.04	48.83	49.18	49.35	.....	49.75	49.86	.....
29	48.90	.....	49.17	49.35	.....	49.74	49.88	.....
30	48.94	.....	49.29	49.40	.....	49.75	49.91	.....
31	49.00	.....	49.27	.....	.....	.....	49.90	.....

e Estimated.

8430-3905-15. City Ice and Fuel Co. Second and Scott Sts., Covington. Lat. 39°05', long. 84°30'. Drilled unused water-table well in sand and gravel, diameter 36 inches, depth 86 feet. Land-surface datum is 490.9 feet above msl. Highest water level 24.62 below lsd, Feb. 4, 1952; lowest 55.82 below lsd, Sept. 8-10, 1953. Records available: 1950-54.

8430-3905-15--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	46.65	47.21	43.35	45.74	50.38	54.26	54.20	52.71	53.08	48.21	49.28
2	49.78	46.44	47.59	42.86	45.73	50.80	54.36	54.30	52.73	53.10	47.96	49.10
3	49.79	46.33	47.59	42.66	45.58	51.05	54.44	54.41	52.77	53.11	48.74	48.94
4	49.81	46.81	46.64	42.29	45.45	51.39	54.50	54.53	52.80	53.11	48.29	48.81
5	.....	47.53	.....	42.24	45.34	51.63	54.56	54.33	52.80	53.09	48.66	48.99
6	.....	47.89	.....	42.51	45.47	51.86	54.62	54.10	52.80	53.08	48.67	49.07
7	49.91	47.97	.....	43.10	45.06	51.77	54.67	53.93	52.82	53.09	48.63	49.09
8	.....	47.96	41.88	43.79	45.04	51.95	54.56	53.63	52.84	53.02	48.78	48.96
9	.....	48.09	41.69	44.55	44.99	52.20	54.69	53.32	52.88	52.96	48.96	48.90
10	.....	48.18	42.02	44.97	44.95	52.37	54.78	53.29	52.90	52.87	49.11	49.07
11	49.85	48.37	42.49	45.11	44.90	52.53	54.89	53.30	52.95	52.86	49.12	49.08
12	49.88	48.56	42.99	45.27	45.01	52.66	54.82	53.28	53.00	52.87	49.16	48.93
13	49.92	48.50	43.27	45.36	45.19	52.77	54.53	53.29	53.03	52.91	49.17	48.74
14	49.85	48.56	43.30	45.58	45.36	52.82	54.30	53.29	53.03	52.90	49.07	48.67
15	49.79	48.63	43.08	45.93	45.60	52.91	54.21	53.26	53.03	52.86	49.07	48.69
16	49.77	48.67	42.64	45.92	45.89	53.11	54.42	53.24	53.06	52.86	49.17	48.74
17	49.84	48.83	42.31	45.24	46.19	53.23	54.59	53.25	53.09	52.85	49.23	48.15
18	49.62	48.87	42.13	44.51	46.43	53.30	54.71	53.22	53.08	52.10	49.28	47.52
19	49.24	48.71	42.10	43.98	46.96	53.28	54.79	53.18	53.03	49.75	49.20	.....
20	48.59	48.51	42.44	43.49	47.53	53.23	54.90	53.14	53.02	47.34	49.32	.....
21	48.43	48.35	43.05	42.50	48.16	53.14	54.96	53.14	53.01	45.49	49.27	.....
22	48.34	48.31	43.63	41.84	48.55	53.21	54.72	53.09	53.05	44.49	49.54	.....
23	48.37	48.13	43.89	41.74	48.66	53.42	54.12	53.02	53.08	44.29	49.67	.....
24	48.25	47.83	44.02	41.88	48.75	53.54	53.47	52.93	53.05	44.61	49.75	.....
25	47.89	47.57	43.98	42.21	48.92	53.65	52.77	52.92	53.03	45.17	49.56	.....
26	47.16	47.40	44.29	42.60	49.07	53.75	52.53	52.92	52.99	45.93	49.45	.....
27	46.63	47.26	44.49	42.97	49.22	53.86	52.94	52.90	52.98	46.18	49.32	.....
28	46.62	47.10	44.52	43.75	49.26	53.97	53.41	52.81	53.00	47.95	49.29	.....
29	46.70	.....	44.46	44.75	49.41	54.09	53.74	52.67	53.03	48.33	49.54	.....
30	46.85	.....	44.18	45.51	49.57	54.17	53.96	52.60	53.06	48.46	49.60	.....
31	46.91	.....	43.66	.....	49.96	.....	54.07	52.65	.....	48.67	.....	.....

## Laurel County

8400-3705-40. J. R. Hale. London. Lat. 37°07', long. 84°04'. Drilled unused water-table well in sandstone of Lee formation, diameter 12 inches, reported depth 400 feet. Highest water level 47.92 below lsd, May 19, 1953; lowest 225 below lsd, Oct. 22, 1947. Records available: 1947, 1950-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	52.93	e51.68	.....	49.96	49.72	49.53	e49.96	50.36	50.62	51.03	50.97	51.14
2	52.87	51.55	.....	.....	49.68	49.45	49.91	50.17	50.65	50.94	51.07	51.08
3	53.11	51.37	.....	.....	49.62	49.31	49.95	50.15	50.61	50.92	.....	50.97
4	52.98	51.28	.....	.....	49.66	49.45	49.95	50.22	50.69	50.96	.....	50.94
5	52.80	51.44	.....	50.17	49.57	49.53	49.91	50.18	50.81	51.00	h51.13	50.83
6	52.82	51.48	.....	50.16	e49.30	49.63	49.89	50.26	50.83	51.01	51.02	51.14
7	52.88	51.72	.....	50.05	49.52	49.66	49.82	50.32	50.67	51.12	51.13	51.09
8	52.85	51.41	.....	50.07	49.43	49.65	49.78	50.25	.....	51.15	51.22	.....
9	52.82	51.31	.....	50.19	.....	49.70	49.81	50.32	.....	51.10	51.27	.....
10	52.68	51.27	50.54	50.16	49.52	.....	49.87	50.31	.....	50.96	51.33	.....
11	52.62	51.40	50.49	50.17	49.45	.....	50.00	50.42	.....	50.83	51.37	.....
12	52.85	51.84	50.46	50.20	49.38	.....	49.99	50.54	.....	50.83	51.25	.....
13	52.91	51.93	50.44	50.04	49.31	.....	49.90	50.57	.....	50.92	51.18	.....
14	52.68	51.72	50.58	50.03	49.31	.....	49.92	50.59	h50.83	50.90	51.15	50.60
15	52.43	51.83	50.72	49.86	49.35	h49.75	49.83	50.59	50.82	50.75	51.09	50.47
16	.....	51.56	50.87	49.77	49.43	49.66	49.90	50.56	50.87	50.80	50.99	50.69
17	.....	51.62	50.75	49.83	49.34	49.73	49.94	50.57	50.96	50.99	50.99	50.53
18	.....	51.54	50.57	49.88	49.26	49.72	50.15	50.54	50.84	51.09	50.98	50.37
19	.....	51.47	50.22	50.03	49.40	49.68	.....	50.48	50.79	51.20	50.88	50.39
20	.....	51.29	50.26	50.03	49.30	49.68	.....	50.51	50.84	51.13	50.80	50.48
21	.....	51.35	50.40	49.98	49.35	49.68	.....	50.53	50.77	51.01	51.00	50.45
22	.....	51.76	50.46	49.95	49.39	49.69	.....	50.66	51.08	51.04	51.04	50.34
23	.....	51.43	50.35	50.00	49.44	49.59	.....	50.71	51.07	51.18	50.92	50.19
24	.....	51.30	50.27	49.88	49.41	49.61	.....	50.59	51.04	51.19	50.77	50.38
25	.....	.....	50.20	49.83	49.35	49.69	.....	50.51	50.93	51.11	50.91	50.48



## 8400-3705-40--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	.....	.....	50.31	50.03	49.42	49.74	.....	50.55	50.93	51.01	51.16	50.51
27	.....	.....	50.24	49.68	49.47	49.78	.....	50.50	50.92	50.98	50.84	50.41
28	.....	.....	50.22	49.68	49.33	49.87	.....	50.59	50.98	50.96	50.77	50.24
29	.....	.....	50.05	e49.70	49.42	49.86	50.22	50.55	51.00	50.80	51.13	49.94
30	.....	.....	50.01	49.78	49.59	49.89	50.25	50.47	51.03	50.83	51.33	50.12
31	.....	.....	49.97	.....	49.57	.....	50.23	50.51	.....	50.99	.....	e50.53

e Estimated.

h Tape measurement.

Letcher County

8255-3705-1. Louisville &amp; Nashville RR. Co. Blackey. Lat. 37°08', long. 82°58'.

Drilled unused water-table well in Breathitt formation, diameter 8 inches, depth 93 feet, cased to 20. Highest water level 16.62 below lsd, Dec. 29-30, 1954; lowest 22.72 below lsd, Oct. 20, 1953. Records available: 1953-54. 22.72, Oct. 20, 1953. Recording gage installed Mar. 30, 1954.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	19.19	19.96	20.48	21.01	18.48	21.44	e21.70	e22.07	18.81
2	.....	.....	.....	19.19	19.97	19.67	21.06	18.48	21.45	21.76	22.08	19.09
3	.....	.....	.....	19.30	.....	19.58	21.14	.....	21.47	21.69	22.09	19.34
4	.....	.....	.....	19.47	19.89	19.82	21.12	19.75	21.51	21.73	22.05	19.57
5	.....	.....	.....	e19.61	19.90	19.97	20.97	19.72	21.57	e21.77	22.09	19.95
6	.....	.....	.....	19.76	19.96	20.05	21.06	19.91	21.60	21.81	22.03	18.59
7	.....	.....	.....	19.80	20.02	20.18	21.10	19.97	21.66	e21.88	21.97	18.51
8	.....	.....	.....	19.83	19.85	20.37	16.83	20.09	21.67	e21.89	22.02	18.64
9	.....	.....	.....	19.22	19.67	20.49	17.48	20.29	21.71	e21.90	22.02	18.65
10	.....	.....	.....	19.18	19.81	20.49	18.04	20.41	21.69	e21.87	22.04	18.63
11	.....	.....	.....	19.26	19.87	20.53	18.32	20.33	21.75	e21.89	22.04	18.73
12	.....	.....	.....	19.40	19.90	20.57	18.50	20.34	21.80	e21.94	22.04	18.66
13	.....	.....	.....	e19.60	19.95	20.66	18.63	.....	21.76	e21.95	22.04	18.40
14	.....	.....	.....	19.72	19.91	20.70	18.86	.....	21.79	21.94	22.05	18.14
15	.....	.....	.....	19.81	19.72	20.58	19.10	.....	21.83	21.94	22.09	18.24
16	.....	.....	.....	19.81	19.56	20.57	19.43	.....	21.84	21.99	22.05	18.42
17	.....	.....	.....	19.78	19.69	20.40	19.90	.....	21.88	21.98	22.05	18.50
18	.....	.....	.....	19.34	19.48	19.83	19.96	.....	21.80	21.99	22.01	18.38
19	.....	.....	.....	19.39	18.79	19.54	20.07	.....	21.89	22.02	22.00	18.31
20	.....	.....	.....	19.63	18.83	19.71	20.18	.....	21.84	22.02	21.60	18.37
21	.....	.....	.....	19.79	19.00	19.97	20.29	.....	21.30	22.02	19.00	18.49
22	.....	.....	.....	19.85	19.18	20.20	18.35	.....	21.13	e22.04	18.73	18.60
23	.....	.....	.....	19.86	19.37	20.25	18.09	.....	21.07	22.11	18.87	18.71
24	.....	.....	.....	19.77	19.64	20.26	18.37	.....	21.13	22.12	19.09	18.94
25	.....	.....	.....	19.82	19.88	20.36	18.42	.....	21.21	22.12	19.36	19.12
26	.....	.....	.....	19.85	19.93	20.50	18.44	.....	21.32	22.08	19.57	19.24
27	.....	.....	.....	19.85	19.95	20.63	18.45	.....	21.43	22.09	19.82	19.35
28	.....	.....	.....	19.86	19.99	20.73	18.46	.....	21.51	22.12	20.52	19.46
29	.....	.....	.....	19.89	20.15	20.85	18.47	.....	21.60	22.06	18.89	17.59
30	.....	.....	h19.11	19.93	20.38	e20.93	18.47	.....	21.68	22.03	18.71	17.06
31	.....	.....	19.14	.....	20.46	.....	18.48	.....	.....	22.09	.....	17.71

e Estimated.

h Tape measurement.

Lincoln County

8440-3725-3. W. Goebel Scott. Lat. 37°26', long. 84°42'. Dug unused water-table well

in shales and sandstones of Mississippian age, diameter 36 inches, depth 15 feet. Land-surface datum is about 985 feet above msl. Highest water level 1.41 below lsd, May 18-20, 1953; lowest 11.03 below lsd, Dec. 23-27, 1954. Records available: 1953-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.78	7.57	7.95	.....	.....	8.55	.....	.....	.....	10.47	.....	.....
2	10.79	8.59	7.68	.....	.....	8.55	.....	.....	.....	10.49	.....	.....
3	10.80	8.56	7.37	.....	.....	8.51	.....	.....	.....	10.50	.....	.....
4	10.80	8.56	7.34	.....	.....	k8.60	.....	.....	.....	10.53	.....	.....
5	10.82	8.57	7.29	.....	.....	k8.69	.....	.....	.....	10.54	.....	.....

## 8440-3725-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	10.82	8.60	7.29	....	....	k8.72	....	....	....	10.56	....	....
7	10.82	8.68	7.33	....	....	k8.74	....	....	....	10.57	....	10.99
8	10.82	8.66	7.44	....	....	k8.76	....	....	....	....	10.93	10.99
9	10.82	8.57	7.46	....	....	k8.78	....	....	....	....	10.93	10.99
10	10.83	8.52	7.53	....	....	k8.79	....	....	....	....	10.93	10.99
11	10.83	8.58	7.36	....	....	k8.81	....	....	....	10.66	10.93	11.00
12	10.83	8.57	7.78	....	....	k8.82	....	....	....	10.67	10.95	11.01
13	10.84	8.51	7.86	....	....	k8.83	....	....	....	10.79	10.95	11.01
14	10.84	8.46	7.89	....	....	8.84	....	....	10.11	....	10.95	11.01
15	10.80	8.44	7.91	....	....	8.84	....	....	10.14	....	10.95	11.02
16	10.73	8.47	7.91	....	....	8.84	....	....	10.18	....	10.95	11.02
17	10.72	....	7.87	....	....	8.89	....	9.39	10.22	....	10.97	11.02
18	10.66	....	7.69	....	....	8.86	....	....	10.24	....	....	11.02
19	10.59	....	7.55	....	....	8.83	9.13	....	10.27	....	....	11.02
20	10.44	....	7.71	....	....	8.83	....	....	10.28	....	....	11.02
21	8.98	....	7.86	....	....	8.84	....	....	10.26	....	....	11.02
22	8.86	....	....	....	....	....	....	....	10.28	....	....	11.02
23	8.81	....	....	....	....	....	....	....	10.31	....	....	11.03
24	8.74	....	....	....	8.25	....	....	....	10.33	....	....	11.03
25	8.72	....	....	....	8.28	....	....	....	10.35	....	....	11.03
26	8.68	....	....	....	8.34	....	....	....	10.37	....	....	11.03
27	6.98	....	....	....	8.38	....	....	....	10.38	....	....	11.03
28	6.98	....	....	5.46	8.37	....	....	....	10.40	....	....	11.00
29	7.07	....	7.30	....	8.42	....	....	....	10.43	....	....	10.90
30	7.25	....	....	....	8.56	....	....	....	10.46	....	....	10.77
31	7.51	....	....	....	8.59	....	....	....	....	....	....	10.64

k Interpolated.

8440-3725-4. Omer Lewis. Lat. 37°27', long. 84°40'. Drilled unused water-table well in shales and sandstones of Mississippian age, diameter 6 inches, depth 33 feet. Land-surface datum is about 1,060 feet above msl. Highest water level 7.66 below lsd, Dec. 14, 1953; lowest 9.83 below lsd, July 2, 1954. Records available: 1953-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.17	8.17	8.70	9.12	9.42	9.57	9.82	9.22	8.67	8.22	7.96	8.25
2	8.17	8.12	8.83	9.14	9.43	9.58	9.83	9.15	8.67	8.21	7.97	8.24
3	8.23	8.07	8.82	....	9.41	9.54	9.80	9.12	8.66	8.20	8.01	8.20
4	8.25	8.10	8.83	....	9.45	9.60	9.74	9.14	8.66	8.15	7.97	8.19
5	8.17	8.15	8.83	....	9.45	9.69	9.66	9.07	8.66	8.15	8.01	8.18
6	8.22	8.46	8.83	....	9.45	9.72	9.68	9.06	8.66	8.13	7.98	8.28
7	8.32	8.30	8.83	....	9.43	9.70	9.68	9.05	8.62	8.18	7.96	8.28
8	8.33	8.26	8.83	....	9.47	9.69	9.68	9.02	8.58	8.17	8.00	8.26
9	8.33	8.20	8.75	....	9.47	9.70	9.67	8.95	8.55	8.12	8.01	8.15
10	8.34	8.24	8.73	....	9.50	9.70	9.65	8.95	8.47	8.08	8.08	....
11	8.26	8.36	8.73	....	9.48	9.70	9.64	8.97	8.47	8.03	8.08	....
12	8.31	8.52	8.74	....	9.47	9.70	9.63	9.00	8.51	8.00	8.08	....
13	8.31	8.45	8.74	....	9.46	9.72	9.57	9.01	8.51	8.01	8.06	....
14	8.27	8.40	8.79	....	9.47	9.72	9.57	8.99	8.50	8.01	8.06	....
15	8.10	8.38	8.86	....	9.48	9.72	9.59	8.95	8.48	7.98	8.05	....
16	8.07	8.36	8.95	....	9.48	9.72	9.70	8.90	8.47	7.95	8.04	....
17	8.16	8.46	8.95	....	9.47	9.74	9.66	8.88	8.47	8.01	8.04	....
18	8.11	8.46	8.87	....	9.46	9.79	9.55	8.88	8.44	8.01	8.05	....
19	8.10	8.43	8.71	....	9.46	9.79	9.55	8.87	8.40	8.02	8.03	....
20	8.05	8.32	8.76	....	9.49	9.79	9.52	8.87	8.36	8.02	8.00	....
21	8.16	8.35	8.88	....	9.52	9.79	9.49	8.87	8.29	8.00	8.05	....
22	8.16	8.44	8.95	....	9.54	9.74	9.44	8.87	8.30	8.00	8.09	....
23	8.19	8.38	8.95	....	9.55	9.76	9.45	8.87	8.31	8.02	8.07	....
24	8.19	8.34	8.97	....	9.56	9.78	9.48	8.86	8.32	8.03	8.04	....
25	8.19	8.31	8.97	....	9.60	9.77	9.48	8.81	8.28	8.00	8.09	....
26	8.15	8.34	8.99	....	9.62	9.76	9.44	8.75	8.25	7.99	8.14	....
27	8.16	8.48	8.99	....	9.61	9.79	9.37	8.75	8.24	7.96	8.06	....
28	8.18	8.48	8.99	9.31	9.57	9.81	9.32	8.75	8.22	7.95	8.04	....
29	8.17	....	8.98	9.34	9.55	9.79	9.28	8.75	8.22	7.89	8.23	....
30	8.19	....	9.00	9.40	9.65	9.78	9.28	8.67	8.22	7.90	8.28	....
31	8.21	....	9.03	....	9.65	....	9.27	8.66	....	7.94	....	....

Livingston County

8820-3705-3. Mrs. Bishop Dycus. Smithland. Lat. 37°08', long. 88°24'. Dug unused water-table well in alluvium of Quaternary age, diameter 36 inches, depth 33 feet. Highest water level 0.50 below lsd, Mar. 3, 1953; lowest 21.69 below lsd, Nov. 22, 1953: Records available: 1952-54.

Daily noon water level from recorder graph, 1952

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 11	17.68	Dec. 17	16.94	Dec. 22	17.07	Dec. 27	17.43
12	17.43	18	16.96	23	17.10	28	17.52
13	17.22	19	17.00	24	17.18	29	17.60
14	17.07	20	17.02	25	17.26	30	17.66
15	16.98	21	17.06	26	17.34	31	17.69
16	16.95						

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.70	....	3.02	2.40	2.27	3.75	9.20	13.55	17.52	19.75	21.09	21.54
2	17.87	....	1.82	2.55	2.51	3.90	....	13.70	17.61	19.81	21.12	21.55
3	17.67	....	.95	2.63	2.73	4.04	....	13.87	17.70	19.88	21.15	21.56
4	17.67	....	1.45	2.75	3.08	4.19	....	13.99	17.80	19.94	21.19	21.55
5	17.67	....	1.78	2.82	2.41	4.37	....	14.14	17.88	20.00	21.21	21.56
6	17.68	....	1.99	2.73	2.43	4.56	....	14.29	17.97	20.05	21.25	21.38
7	17.68	....	2.17	2.33	2.43	4.70	....	14.41	18.06	20.11	21.28	21.24
8	17.16	....	2.32	2.36	1.90	4.80	....	14.56	18.15	20.17	21.30	21.16
9	16.16	....	2.38	2.42	2.13	4.95	....	14.69	18.24	20.22	21.32	21.07
10	15.32	....	2.41	2.61	2.33	5.20	....	14.86	18.32	20.26	21.37	20.99
11	14.60	....	2.46	2.76	2.44	5.41	....	14.96	18.39	20.31	21.40	20.93
12	....	4.74	2.43	2.74	2.39	5.61	....	15.13	18.46	20.35	21.43	20.89
13	13.73	4.44	2.36	2.83	2.54	5.77	....	15.26	18.55	20.40	21.46	20.86
14	13.43	4.19	1.24	2.95	1.69	5.89	11.71	15.39	18.62	20.45	21.49	20.81
15	13.22	4.11	1.50	2.99	1.59	5.96	11.93	15.52	18.68	20.49	21.51	20.76
16	....	4.10	1.83	3.14	1.23	6.08	12.17	15.65	18.75	20.54	21.54	20.73
17	....	4.33	1.99	3.23	1.09	6.21	12.31	15.78	18.82	20.58	21.56	20.75
18	....	4.39	1.26	2.94	1.20	6.35	12.31	15.91	18.89	20.63	21.59	20.76
19	....	4.46	1.72	2.23	1.38	6.54	12.37	16.05	18.96	20.68	21.64	20.77
20	....	4.46	1.96	2.33	1.73	6.77	12.46	16.18	19.03	20.73	21.65	20.77
21	....	2.97	2.19	2.40	2.04	7.04	12.55	16.30	19.10	20.77	21.68	20.75
22	....	2.75	1.60	2.49	2.23	7.30	12.51	16.43	19.18	20.82	21.65	20.76
23	....	2.74	1.49	2.66	2.39	7.58	12.48	16.55	19.25	20.86	21.61	20.80
24	....	2.67	1.85	2.70	2.50	7.80	12.53	16.66	19.33	20.91	21.59	20.84
25	....	2.67	2.11	2.49	2.68	8.06	12.61	16.78	19.39	20.95	21.51	20.86
26	....	2.72	2.28	2.63	2.85	8.36	12.74	16.89	19.46	20.98	21.50	20.88
27	....	2.78	2.35	2.77	3.03	8.61	12.87	17.00	19.50	20.98	21.49	20.91
28	....	2.95	2.42	2.87	3.19	8.85	12.97	17.11	19.57	20.99	21.50	20.93
29	....	....	2.55	2.97	3.29	8.99	13.11	17.21	19.63	20.99	21.51	20.93
30	....	....	2.60	2.00	3.40	9.14	13.26	17.31	19.69	21.03	21.52	20.94
31	....	....	2.45	....	3.55	....	13.42	17.41	....	21.06	....	20.96

Daily noon water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.98	....	6.05	6.59	3.23	5.29	9.82	16.12	19.05	20.28	17.51	18.20
2	20.99	....	6.09	6.60	3.00	5.44	10.17	16.21	19.12	20.12	17.46	18.24
3	21.02	....	6.23	6.75	2.01	4.93	10.45	16.34	19.19	19.89	17.43	18.26
4	21.05	....	6.43	6.83	2.24	4.28	10.73	16.46	19.28	19.75	17.36	18.27
5	21.07	10.49	6.45	6.94	2.35	4.16	11.02	16.58	19.34	19.66	17.33	....
6	21.10	10.64	6.48	7.00	2.49	4.18	11.30	16.70	19.40	19.63	17.31	....
7	21.13	10.94	6.51	6.72	1.30	4.29	11.53	16.82	19.47	19.53	17.31	....
8	21.16	11.10	6.60	6.55	1.83	4.48	11.79	16.93	19.53	19.49	17.31	....
9	21.17	11.17	6.64	6.20	2.12	4.69	12.04	17.05	19.59	19.45	17.31	....
10	21.18	11.31	6.69	5.91	2.32	4.81	12.31	17.16	19.65	19.41	17.36	....
11	21.18	11.55	6.76	5.81	2.44	4.88	12.54	17.27	19.71	19.38	17.38	....
12	21.18	11.94	6.89	5.85	2.60	5.03	12.75	17.39	19.77	19.32	17.42	....
13	21.18	12.17	7.11	5.79	2.72	5.24	12.94	17.50	19.82	19.25	17.46	....
14	21.16	12.33	7.46	5.73	2.85	5.47	13.15	17.60	19.88	19.22	17.49	....
15	21.07	12.49	7.84	5.76	2.99	5.70	13.37	17.70	19.94	19.04	17.51	....

## 8820-3705-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	21.07	12.53	8.15	5.82	3.12	5.98	13.60	17.80	20.00	18.92	17.54	.....
17	21.07	11.83	8.33	5.92	3.27	6.03	13.81	17.88	20.07	18.87	17.57	5.59
18	21.07	10.74	8.36	5.88	3.31	6.05	14.00	17.97	20.13	18.86	17.61	5.80
19	21.07	9.92	8.27	5.94	3.54	6.14	14.17	18.05	20.18	18.86	17.64	5.85
20	21.05	9.01	8.46	6.07	3.73	6.30	14.35	18.14	20.20	18.88	17.69	5.85
21	.....	7.47	8.76	6.15	3.89	6.54	14.51	18.22	20.22	18.88	17.75	5.85
22	.....	6.51	8.93	6.21	4.03	6.81	14.67	18.29	20.22	18.90	17.80	5.85
23	.....	5.94	9.03	6.15	4.20	7.12	14.81	18.38	20.22	18.92	17.85	5.86
24	.....	5.75	9.00	6.07	4.38	7.46	14.96	18.46	20.22	18.94	17.89	5.86
25	.....	5.64	8.82	5.97	4.56	7.78	15.12	18.54	20.22	18.96	17.96	5.86
26	.....	5.72	8.41	5.90	4.81	8.10	15.28	18.60	20.22	18.66	18.03	5.86
27	.....	5.74	7.78	5.85	5.01	8.43	15.43	18.67	20.23	18.43	18.05	5.84
28	.....	5.94	7.08	4.20	5.17	8.79	15.57	18.75	20.24	18.20	18.04	5.83
29	.....	.....	6.63	3.59	5.30	9.13	15.71	18.83	20.24	17.95	18.07	5.83
30	.....	.....	8.47	3.35	5.33	9.47	15.85	18.90	20.27	17.74	18.15	5.83
31	.....	.....	6.45	.....	5.28	.....	15.99	18.98	.....	17.60	.....	5.83

e Estimated.

## Logan County

8645-3650-1. E. C. Cash. Lat. 36°52', long. 86°47'. Dug unused water-table well in Ste. Genevieve limestone, diameter 28 inches, depth 24 feet. Highest water level 3.60 below lsd, May 18, 1953; lowest 17.07 below lsd, Dec. 5, 1953. Records available: 1952-54. Recording gage installed Nov. 17, 1952.

## Daily noon water level from recorder graph, 1952

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 17	16.23	Nov. 29	16.21	Dec. 10	16.07	Dec. 21	16.21
18	16.23	30	16.22	11	16.08	22	16.21
19	16.23	Dec. 1	16.22	12	16.12	23	16.22
20	16.19	2	16.20	13	16.13	24	16.22
21	16.19	3	16.19	14	16.15	25	16.22
22	16.19	4	16.19	15	16.17	26	16.22
23	16.20	5	16.09	16	16.18	27	16.22
24	16.21	6	16.12	17	16.19	28	16.22
25	16.21	7	16.13	18	16.20	29	16.22
26	16.20	8	16.14	19	16.20	30	16.23
27	16.20	9	16.15	20	16.21	31	16.22
28	16.21						

## Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.21	11.73	13.19	11.10	13.54	12.84	16.18	16.20	16.20	16.40	16.64	17.01
2	16.14	12.00	12.16	10.93	13.54	13.20	16.18	16.20	16.20	16.41	16.65	17.03
3	16.14	12.30	8.80	11.00	13.72	13.53	16.18	16.19	16.20	16.42	16.66	17.04
4	16.15	12.66	7.21	11.31	13.94	13.82	16.18	16.19	16.20	16.43	16.67	17.05
5	16.15	12.85	7.79	11.55	12.76	14.14	16.18	16.20	16.21	16.44	16.68	17.06
6	16.16	12.81	8.39	11.69	12.56	14.43	16.16	16.21	16.21	16.45	16.69	16.86
7	16.10	13.02	8.85	12.04	12.07	14.66	16.18	16.21	16.21	16.44	16.70	16.84
8	15.90	13.25	9.46	12.36	12.12	14.91	16.18	16.21	16.22	16.45	16.72	16.85
9	14.40	13.56	9.95	12.60	12.25	15.16	16.18	16.20	16.25	16.45	16.73	16.68
10	.....	13.72	10.34	12.89	12.44	15.36	16.18	16.21	16.25	16.45	16.75	16.54
11	.....	13.40	10.73	13.16	12.69	15.56	16.18	16.21	16.26	16.45	16.76	16.56
12	14.48	10.59	11.09	13.39	12.95	15.70	16.18	16.21	16.26	16.46	16.77	16.60
13	14.53	10.60	11.41	13.73	13.23	15.84	16.18	16.21	16.27	16.47	16.79	16.63
14	14.69	10.83	11.58	14.05	12.85	15.93	16.18	16.21	16.28	16.47	16.80	16.37
15	14.88	11.20	11.17	14.15	12.36	16.05	16.19	16.21	16.29	16.48	16.81	16.21
16	15.08	11.58	11.45	14.41	6.65	16.13	16.19	16.21	16.29	16.49	16.82	16.20
17	14.73	12.19	11.64	14.61	4.10	16.13	16.16	16.21	16.30	16.49	16.84	16.21
18	13.32	12.50	9.93	14.11	3.85	16.13	16.15	16.21	16.30	16.50	16.85	16.21
19	13.27	12.73	9.99	14.24	4.27	16.12	16.14	16.21	16.30	16.51	16.87	16.20
20	13.38	12.87	10.20	14.34	5.38	16.14	16.14	16.21	16.32	16.52	16.88	16.20
21	13.62	11.89	10.58	14.46	6.65	16.14	16.15	16.21	16.33	16.53	16.90	16.21
22	13.81	11.65	10.92	14.59	7.70	16.14	16.17	16.21	16.34	16.54	16.86	16.22
23	13.50	11.68	9.55	14.78	8.67	16.15	16.17	16.21	16.35	16.55	16.88	16.22
24	10.97	11.75	9.63	14.94	9.33	16.15	16.17	16.20	16.35	16.56	16.90	16.22
25	10.84	11.96	10.11	14.99	9.89	16.16	16.17	16.20	16.36	16.57	16.92	16.22

## 8645-3650-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	11.00	12.27	10.50	15.11	10.45	16.16	16.17	16.20	16.37	16.58	16.94	16.22
27	11.38	12.58	10.77	15.35	10.97	16.17	16.18	16.20	16.37	16.59	16.95	16.23
28	10.85	12.95	11.19	15.47	11.43	16.17	16.18	16.20	16.38	16.60	16.97	16.19
29	10.71		11.60	15.58	11.76	16.18	16.19	16.20	16.39	16.61	16.99	16.20
30	10.88		11.96	13.90	12.12	16.18	16.19	16.20	16.40	16.62	17.00	16.20
31	11.26		12.22		12.49		16.20	16.20		16.63		16.20

## Daily noon water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.20	10.95	12.07	15.09	14.18	16.14	16.17	16.25	16.20	16.19	16.38	16.60
2	16.20	11.39	12.22	15.13	14.36	16.15	16.19	16.25	16.20	16.19	16.38	16.60
3	16.20	11.69	12.52	15.30	14.47	14.37	16.18	16.25	16.20	16.20	16.39	16.60
4	16.20	12.11	12.76	15.38	14.61	14.25	16.18	16.25	16.21	16.20	16.40	16.61
5	16.20	12.55	12.88	15.51	14.74	14.05	16.18	16.25	16.21	16.20	16.41	16.49
6	16.21	12.91	13.06	14.50	14.91	14.03	16.18	16.26	16.22	16.22	16.41	16.23
7	16.22	13.25	13.21	14.49	11.64	14.17	.....	16.25	16.23	16.22	16.42	16.22
8	16.23	13.43	13.48	14.68	12.28	14.34	.....	16.25	16.23	16.22	16.43	16.22
9	16.23	13.67	13.63	14.77	12.57	14.57	.....	16.25	16.24	16.22	16.43	16.21
10	16.18	13.90	13.97	14.88	12.91	14.78	.....	16.25	16.24	16.22	16.45	16.21
11	16.16	14.26	14.09	14.94	13.15	15.01	.....	16.25	16.25	16.22	16.47	16.21
12	16.17	14.58	14.34	15.03	13.43	15.24	.....	16.26	16.26	16.22	16.46	16.19
13	16.17	14.67	14.57	15.05	13.72	15.45	.....	16.26	16.26	16.22	16.46	16.14
14	16.17	14.89	14.82	15.08	13.78	15.61	.....	16.25	16.26	16.24	16.46	16.14
15	15.41	14.96	15.07	15.11	13.97	15.68	.....	16.25	16.27	16.24	16.46	16.16
16	13.86	13.85	15.25	13.15	14.16	15.86	.....	16.25	16.28	16.25	16.47	16.17
17	14.54	12.83	15.36	12.61	14.37	16.03	e16.27	16.30	16.25	16.48	16.17	
18	14.73	12.99	15.38	12.78	14.57	16.17	.....	16.26	16.30	16.24	16.48	16.17
19	14.89	13.06	15.30	13.12	14.76	16.15	.....	16.20	16.31	16.25	16.49	16.18
20	14.10	12.90	15.54	13.47	14.98	16.15	.....	16.21	16.31	16.25	16.50	16.19
21	10.16	12.12	15.76	13.69	15.12	16.15	.....	16.21	16.20	16.25	16.50	16.19
22	9.92	12.37	15.85	13.93	15.29	16.15	16.25	16.20	16.19	16.25	16.51	16.19
23	10.15	12.49	15.92	14.04	15.43	16.16	16.22	16.20	16.18	16.27	16.52	16.20
24	10.58	12.77	15.10	12.17	15.57	16.16	16.24	16.20	16.17	16.28	16.53	16.20
25	11.10	12.95	14.89	12.41	15.67	16.16	16.25	16.21	16.17	16.28	16.54	16.20
26	11.41	13.40	14.21	12.67	15.78	16.16	16.25	16.20	16.17	16.29	16.55	16.21
27	8.31	13.58	14.17	12.89	15.90	16.17	16.24	16.20	16.17	16.31	16.55	16.21
28	8.76		14.28	13.19	15.97	16.18	16.24	16.21	16.17	16.31	16.56	16.03
29	9.29		14.39	13.50	16.07	16.17	16.24	16.21	16.19	16.32	16.58	14.98
30	10.01		14.65	13.86	16.18	16.17	16.24	16.20	16.19	16.32	16.59	15.23
31	10.68		14.84		16.16		16.24	16.20		16.35		15.29

e Estimated.

## McCracken County

8830-3655-129. Jack Reid. Lat. 36°58', long. 88°32'. Dug unused water-table well in alluvial sand, diameter 24 inches, depth 36 feet. Land-surface datum is 337.97 feet above msl. Highest water level 11.80 below lsd, Mar. 25, 1952; lowest 29.90 below lsd, Sept. 9, 1954. Records available: 1950-54. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	29.26	Apr. 21	26.20	Aug. 10	28.85	Nov. 5	29.44
27	25.35	June 18	26.85	Sept. 9	29.90	Dec. 3	29.38
Feb. 25	25.96	July 19	28.24	Oct. 7	29.29		

8830-3700-87. Ashland Oil & Refining Co. Lat. 37°01', long. 88°31'. Drilled unused artesian well in sand of Ripley formation, diameter 5 inches, depth 227 feet. Land-surface datum is 384.47 feet above msl. Highest water level 57.73 below lsd, Feb. 12, 1952; lowest 79.70 below lsd, Oct. 21, 1954. Records available: 1951-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.40	70.53	77.38	77.65	75.13	77.20	77.57	77.67	77.79	77.79	78.36	77.89
2	77.38	71.90	77.03	77.77	75.42	77.16	77.49	77.53	77.78	77.67	78.27	78.03
3	77.23	73.35	76.61	77.83	75.64	77.08	77.38	77.62	77.80	77.67	78.36	78.06
4	77.32	74.75	76.52	77.75	75.90	77.17	77.38	77.70	77.80	77.64	78.35	78.16
5	77.28	75.50	76.54	77.65	76.05	77.13	77.38	77.68	77.76	77.83	78.08	78.07

## 8830-3700-87--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	77.33	75.23	76.68	77.40	76.04	77.23	77.46	77.62	77.79	77.74	78.08	77.96
7	77.35	75.41	76.68	77.05	75.61	77.31	77.57	77.61	77.78	77.90	78.02	77.64
8	77.30	75.70	76.35	76.84	75.35	77.23	77.54	77.50	77.70	78.15	78.12	77.75
9	77.33	75.84	76.60	76.75	75.22	77.23	77.50	77.63	77.78	77.94	78.26	77.84
10	77.25	76.02	75.50	76.87	75.09	77.19	77.55	77.82	77.91	77.84	78.37	77.77
11	77.21	76.29	75.14	77.10	75.15	77.23	77.60	77.73	78.15	77.90	78.14	77.91
12	77.31	76.27	75.00	77.44	75.28	77.25	77.65	77.56	78.09	77.92	78.07	77.95
13	77.29	76.25	75.12	77.63	75.37	77.26	77.50	77.66	77.92	78.00	77.99	77.77
14	77.13	76.37	75.51	77.78	75.52	77.43	77.57	77.71	77.91	77.96	78.07	77.81
15	77.14	76.47	75.92	77.95	75.62	77.41	77.58	77.70	77.93	77.96	78.04	77.89
16	76.93	76.37	e76.40	77.96	75.64	77.40	77.59	77.79	77.95	77.82	77.97	77.84
17	.....	76.30	76.86	e77.57	75.75	77.37	77.63	77.84	77.96	78.19	77.96	77.89
18	.....	76.59	77.18	77.14	76.00	77.47	77.66	77.66	77.97	78.37	78.07	77.65
19	74.98	77.27	77.18	76.63	76.31	77.44	.....	77.73	77.88	78.67	78.03	77.97
20	74.53	77.24	77.05	76.16	76.61	77.48	77.66	77.74	77.83	78.73	78.00	78.00
21	.....	76.87	77.05	75.76	77.02	77.52	77.56	77.65	77.74	79.67	77.91	78.67
22	.....	76.63	77.08	75.50	77.35	77.49	77.59	77.74	77.69	78.92	77.98	e79.03
23	.....	76.49	77.27	75.32	77.83	77.51	77.74	77.83	77.70	79.07	77.92	e78.65
24	.....	76.58	77.53	74.98	77.57	77.56	78.05	77.80	77.86	78.40	77.92	78.86
25	.....	76.84	77.56	74.61	77.42	77.54	78.30	77.82	77.72	77.72	77.94	79.05
26	.....	77.15	77.32	74.37	77.27	77.36	78.30	77.72	77.86	77.15	77.80	79.01
27	69.90	77.29	77.19	74.30	77.18	77.42	78.16	77.78	77.88	77.17	77.86	78.90
28	69.78	76.67	77.18	74.39	77.25	77.39	77.98	77.70	77.71	77.38	78.03	78.76
29	69.64		77.20	74.63	77.31	77.49	77.70	77.70	77.77	77.77	78.06	e78.24
30	69.77		77.60	74.83	77.32	77.53	77.78	77.60	77.85	78.28	77.99	e77.81
31	70.03		77.64		77.25		77.69	77.84		78.29		e77.31

e Estimated.

8830-3700-135. Mrs. J. C. Morgan. Lat. 37°02', long. 88°34'. Dug unused water-table well in alluvium of Quaternary age, diameter 36 inches, depth 39 feet. Land-surface datum is about 341 feet above msl. Highest water level 2.56 below lsd, Jan. 15, 1951; lowest 15.28 below lsd, Sept. 29, 1954. Records available: 1950-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3, 1951	4.22	Oct. 30, 1951	10.83	Apr. 21, 1953	6.55	Aug. 25, 1953	13.41
15	2.56	Nov. 13	9.50	28	6.78	Sept. 1	13.69
30	5.18	Dec. 11	3.89	May 5	6.39	8	13.90
Feb. 12	4.53	Jan. 1, 1952	4.85	12	6.64	15	13.59
26	4.13	30	5.09	19	2.88	21	14.34
Mar. 12	3.92	Feb. 26	4.67	26	5.15	29	14.31
26	4.57	Mar. 25	4.02	28	5.87	Oct. 6	14.51
Apr. 9	4.22	Apr. 21	5.11	June 2	7.14	13	14.61
23	4.21	May 16	6.97	9	8.25	20	14.72
May 14	6.89	June 12	8.14	16	8.48	27	14.74
June 4	6.13	July 11	10.68	23	9.66	Nov. 3	14.80
26	5.76	Aug. 12	12.22	30	10.27	10	14.83
July 10	4.91	Sept. 9	12.99	July 7	10.92	17	14.84
24	7.41	Oct. 7	13.53	14	11.49	24	14.79
Aug. 7	8.90	Nov. 5	13.60	21	11.80	Dec. 1	14.88
21	10.15	Dec. 2	13.70	28	12.16	8	14.84
Sept. 4	10.08	Jan. 2, 1953	13.17	Aug. 4	12.62	15	14.86
18	9.62	30	8.50	11	12.78	22	14.84
Oct. 2	9.70	Feb. 25	6.47	18	13.13	29	14.87
16	10.70	Mar. 26	4.63				

## Daily noon water level from recorder graph, 1954

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	.....	9.77	11.96	13.88	14.85	15.27	.....	.....
2	.....	.....	.....	.....	.....	9.77	12.09	13.81	14.88	15.20	.....	.....
3	.....	.....	.....	.....	.....	8.60	12.15	13.86	14.90	15.19	.....	.....
4	.....	.....	.....	.....	.....	8.66	12.24	13.91	14.94	15.23	.....	.....
5	h14.92	.....	.....	.....	.....	8.77	12.29	13.95	14.97	15.25	h14.81	.....
6	.....	.....	.....	.....	.....	8.90	12.35	13.98	15.00	e15.23	.....	.....
7	.....	.....	.....	.....	.....	9.07	12.43	13.98	15.01	15.19	.....	.....
8	.....	.....	.....	.....	.....	9.20	12.47	14.01	15.01	.....	.....	h13.86
9	.....	.....	.....	.....	.....	9.32	12.55	14.06	15.03	.....	.....	.....
10	.....	.....	.....	.....	.....	9.16	12.64	14.13	15.04	.....	.....	.....

## 8830-3700-135--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	.....	.....	.....	.....	9.21	12.66	14.18	15.06	.....	.....	.....
12	.....	.....	.....	.....	.....	9.37	12.72	14.22	15.08	.....	.....	.....
13	.....	.....	.....	.....	7.27	9.55	12.78	14.23	15.10	.....	.....	.....
14	.....	.....	.....	.....	7.56	9.69	12.83	14.26	15.12	.....	.....	.....
15	.....	.....	.....	.....	7.84	9.81	12.90	14.31	15.15	.....	.....	.....
16	.....	.....	.....	.....	8.05	9.94	13.00	14.35	15.17	.....	.....	.....
17	.....	.....	.....	.....	8.24	10.13	13.11	14.38	15.19	.....	.....	.....
18	.....	.....	.....	.....	8.58	10.33	13.17	14.43	15.21	.....	.....	.....
19	.....	.....	.....	.....	8.82	10.46	13.21	14.47	15.23	.....	.....	.....
20	.....	.....	.....	.....	9.05	10.56	13.31	14.49	15.24	.....	.....	.....
21	.....	.....	.....	h9.99	9.18	10.67	13.35	14.50	15.23	.....	.....	.....
22	.....	.....	.....	.....	9.25	10.79	13.36	14.54	15.25	.....	.....	.....
23	.....	.....	.....	.....	9.43	10.95	13.39	14.57	15.26	.....	.....	.....
24	.....	.....	.....	.....	9.54	11.11	13.47	14.60	15.27	.....	.....	.....
25	.....	h10.17	.....	.....	9.59	11.19	13.55	14.63	15.27	.....	.....	.....
26	.....	.....	h10.05	.....	9.61	11.31	13.60	14.67	15.27	.....	.....	.....
27	h13.37	.....	.....	.....	9.57	11.42	13.65	14.70	15.27	.....	.....	.....
28	.....	.....	.....	.....	9.60	11.56	13.70	14.74	15.27	.....	.....	.....
29	.....	.....	.....	.....	9.65	11.71	13.74	14.77	15.28	.....	.....	.....
30	.....	.....	.....	.....	9.68	11.84	13.82	14.80	15.28	.....	.....	.....
31	.....	.....	.....	.....	9.67	.....	13.87	14.83	.....	.....	.....	.....

e Estimated.

h Tape measurement.

8840-3700-265. J. Earl Ham. Lat. 37°02', long. 88°43'. Dug unused artesian well in Holly Springs sand, diameter 24 inches, depth 86 feet. Land-surface datum is about 475 feet above msl. Highest water level 80.94 below lsd, Mar. 3, 1953; lowest 81.93 below lsd, Feb. 14, 1954. Records available: 1952-54. Measurement discontinued.

## Daily noon water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	81.57	Feb. 15	81.76	Mar. 12	81.30	Apr. 6	81.43
7	81.44	16	81.63	13	81.53	7	81.38
8	81.33	17	81.46	14	81.75	8	81.76
9	81.41	18	81.28	15	81.85	9	81.52
10	81.46	19	81.18	16	81.78	10	81.54
11	81.43	20	81.51	17	81.60	11	81.64
12	81.82	21	81.66	18	81.25	12	81.66
28	81.68	22	81.43	19	81.06	13	81.34
29	81.43	23	81.43	20	81.60	14	81.26
30	81.43	24	81.24	21	81.63	15	81.27
31	81.66	25	81.10	22	81.53	16	81.47
Feb. 1	81.47	26	81.50	23	81.49	21	81.57
2	81.29	27	81.15	24	81.32	22	81.50
3	81.20	28	81.58	25	81.39	23	81.54
4	81.33	Mar. 1	81.63	26	81.80	24	81.53
5	81.22	2	81.53	27	81.51	25	81.48
6	81.49	3	81.85	28	81.39	26	81.37
7	81.43	4	81.79	29	81.22	27	81.30
8	81.62	5	81.60	30	81.55	28	81.41
9	81.67	6	81.59	31	81.60	29	81.51
10	81.33	7	81.43	Apr. 1	81.64	30	81.52
11	81.15	8	81.43	2	81.46	May 1	81.59
12	81.24	9	81.22	3	81.56	2	81.43
13	81.28	10	81.21	4	81.44	3	81.66
14	81.93	11	81.26	5	81.45		

## Muhlenberg County

8700-3710-3. City of Drakesboro. Lat. 37°11', long. 87°04'. Drilled unused artesian well in Anvil Rock sandstone member of Lisman formation, diameter 8 inches, depth 176 feet. Land-surface datum is about 430 feet above msl. Highest water level 1.94 below lsd, Feb. 3, 1953; lowest 12.10 below lsd, Dec. 4, 1953. Records available: 1952-54.

8700-3710-3--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.73	5.35	4.55	....	4.91	5.17	7.56	9.01	8.67	7.03	7.67	6.68
2	11.60	5.36	4.72	....	4.90	5.19	7.67	8.97	8.70	6.85	7.86	6.65
3	11.79	5.40	4.75	....	4.92	4.32	7.74	9.11	8.76	6.78	7.79	6.59
4	11.71	5.39	4.81	....	4.94	4.72	7.85	9.20	8.87	7.06	7.62	6.58
5	11.74	5.41	4.85	....	4.97	4.84	7.92	9.21	8.96	7.29	7.60	6.21
6	11.79	5.46	4.93	4.60	5.01	4.92	8.04	9.23	8.99	7.58	7.41	5.96
7	11.69	5.49	4.96	4.59	3.77	4.99	8.07	9.29	9.05	7.75	7.48	5.81
8	11.63	5.39	5.02	4.63	4.30	5.03	8.23	9.31	9.10	7.76	7.55	5.70
9	11.66	5.47	5.02	4.63	4.50	4.28	8.34	9.41	9.12	7.79	7.59	5.68
10	11.63	5.48	5.04	4.69	4.60	4.63	8.42	9.45	9.17	7.80	7.65	5.70
11	11.36	5.60	5.06	4.69	4.66	4.76	8.50	9.53	9.30	7.84	7.66	5.66
12	11.37	5.60	5.06	4.73	4.73	4.89	8.54	9.62	9.40	7.93	7.60	5.50
13	11.29	5.53	5.08	4.71	4.76	4.99	8.58	9.64	9.41	8.09	7.52	4.72
14	11.13	5.53	5.10	4.74	4.71	4.42	8.66	9.66	9.40	8.07	7.51	4.86
15	10.35	5.51	5.13	4.76	4.74	4.74	8.76	9.73	9.46	7.07	7.48	5.00
16	7.33	4.65	5.14	3.34	4.79	4.88	8.89	9.74	9.57	6.90	7.41	5.10
17	7.94	4.70	5.12	4.04	4.85	5.00	8.90	9.79	9.65	6.97	7.25	5.05
18	8.28	4.86	5.11	4.30	4.86	5.03	8.93	9.62	9.62	7.19	7.09	5.10
19	8.45	4.95	5.04	4.49	4.91	5.16	9.03	9.65	9.65	7.34	6.80	5.17
20	6.08	4.41	5.14	4.60	4.92	5.29	9.09	7.20	9.63	7.39	6.80	5.17
21	5.16	4.71	5.14	4.66	4.95	5.44	9.13	7.52	8.58	7.45	6.87	5.18
22	5.26	4.88	5.09	4.71	4.99	5.72	8.05	7.55	8.82	7.60	6.89	5.17
23	5.40	4.94	5.07	4.73	5.02	6.04	8.22	7.78	9.06	7.69	6.81	5.16
24	5.47	4.97	4.86	4.78	5.06	6.26	8.45	7.90	9.09	7.72	6.67	5.25
25	5.53	5.01	4.70	4.82	5.10	6.46	8.58	7.97	9.12	7.72	6.77	5.24
26	5.52	5.13	4.56	4.85	5.12	6.66	8.67	8.08	9.11	7.72	6.86	5.25
27	5.11	5.08	4.59	4.60	5.12	6.87	8.70	6.21	9.13	7.80	6.67	5.23
28	5.21	4.15	4.60	4.80	5.15	7.07	6.76	8.35	9.20	7.75	6.55	3.82
29	5.25	....	....	4.81	5.17	7.24	8.84	8.39	9.12	7.66	6.77	3.59
30	5.35	....	....	4.85	5.19	7.39	8.95	8.43	7.37	7.68	6.83	4.23
31	5.35	....	....	....	5.25	....	9.00	8.56	....	7.73	....	4.48

Ohio County

8650-3720-8. E. C. Heflin. Second St. and Central Ave., Beaver Dam. Lat. 37°24', long. 86°53'. Drilled unused artesian well in Caseyville sandstone, diameter 6 inches, depth 265 feet. Highest water level 116.39 below lsd, Mar. 10, 1952; lowest 141.96 below lsd, Dec. 24, 1954. Records available: 1948, 1951-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h127.26	125.94	124.54	124.34	125.02	124.60	134.71	136.23	136.89	137.22	.....	138.63
2	127.63	125.52	125.06	124.46	124.94	124.99	134.81	135.22	136.57	136.99	.....	139.69
3	127.64	125.39	125.16	125.07	124.23	124.75	136.03	135.68	136.71	137.54	.....	139.94
4	127.32	125.12	124.76	124.77	124.17	124.99	136.27	136.01	137.06	.....	.....	140.92
5	126.76	124.91	125.51	123.76	124.42	125.19	135.90	136.81	137.43	.....	.....	139.94
6	126.72	124.82	125.50	123.58	124.30	125.40	136.40	136.61	137.37	.....	.....	138.89
7	126.64	124.06	125.21	123.59	124.27	124.59	136.94	136.31	137.26	.....	.....	138.98
8	126.31	124.49	125.81	124.01	124.16	125.16	137.35	135.80	137.20	.....	h138.10	139.00
9	126.76	125.14	126.17	123.90	123.59	125.47	137.37	135.31	137.62	136.48	139.27	138.57
10	127.43	125.26	125.42	124.46	122.95	125.43	137.97	134.92	137.63	.....	.....	138.96
11	127.46	125.23	125.53	124.33	123.05	125.41	137.62	135.27	137.97	139.59	139.62	139.37
12	127.64	125.73	125.92	123.71	123.22	127.32	136.57	134.89	137.64	.....	.....	138.39
13	128.11	125.49	126.79	123.91	123.52	127.02	137.11	134.12	137.73	.....	.....	137.23
14	127.59	125.56	126.19	123.30	123.37	127.88	138.14	133.73	137.27	.....	140.00	136.91
15	126.62	125.28	125.28	123.99	123.64	127.75	138.75	134.37	137.36	.....	139.03	137.61
16	126.44	125.71	125.61	123.87	123.58	128.60	138.76	133.55	137.94	.....	138.96	138.51
17	125.95	125.66	125.53	124.44	122.99	129.57	138.49	134.22	138.17	.....	138.69	139.33
18	125.06	125.42	125.76	124.79	123.09	129.99	138.14	133.80	139.30	.....	138.61	138.98
19	126.05	125.53	125.14	124.30	123.54	130.64	137.36	133.87	139.89	.....	138.30	138.71
20	126.04	125.27	125.44	124.83	123.32	130.87	137.39	134.58	139.14	.....	138.26	139.00
21	126.31	125.18	125.28	125.22	123.01	130.92	138.12	134.47	138.26	.....	139.57	139.80
22	126.43	124.94	124.52	125.01	123.72	131.46	137.70	134.38	138.21	.....	138.33	140.20
23	127.31	124.89	124.40	125.42	123.76	132.01	137.05	134.06	138.22	.....	138.57	140.67
24	126.42	125.30	124.36	125.14	123.25	133.09	136.92	134.52	137.89	.....	136.77	141.77
25	125.87	125.39	124.26	124.97	123.28	132.85	137.44	134.86	137.95	.....	139.59	140.97



## 8650-3720-8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	125.46	125.71	124.36	124.19	123.64	133.26	137.78	135.24	137.61	.....	139.34	139.96
27	125.47	125.34	124.22	125.68	123.42	133.97	136.22	135.74	137.31	.....	139.44	139.69
28	125.01	125.20	124.12	125.26	123.48	133.34	136.15	136.31	137.22	.....	139.11	140.28
29	125.93		123.71	125.02	123.97	133.50	136.45	136.04	137.19	.....	138.68	140.33
30	126.79		123.72	125.01	124.39	133.83	136.36	136.14	137.46	.....	139.00	140.60
31	126.59		124.11		124.10		136.58	136.59		.....		140.69

e Estimated.

h Tape measurement.

## Pulaski County

8435-3655-1. R. Bausch. Lat. 36°59', long. 84°36'. Drilled unused water-table well in limestone of Fort Payne(?) chert, diameter 6 inches, depth 146 feet. Highest water level 82.76 below lsd, Sept. 12, 1954; lowest 90.99 below lsd, Nov. 8, 1952. Records available: 1952-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	83.82	83.70	84.62	83.69	83.29	84.00	83.56	83.02	83.52	83.74	83.98
2	.....	83.87	83.70	84.67	83.64	83.24	84.00	83.44	82.97	83.50	83.70	83.91
3	.....	83.85	83.67	84.68	83.56	83.19	83.96	83.35	82.94	83.47	83.73	83.84
4	84.11	83.85	83.70	84.68	83.50	83.14	83.92	83.28	82.92	83.45	83.74	.....
5	84.27	83.84	83.78	84.62	83.44	83.12	83.87	83.45	82.90	83.43	83.74	.....
6	84.34	83.84	83.81	84.57	83.38	83.10	83.81	83.57	82.89	83.43	.....	.....
7	84.40	83.86	83.83	84.61	83.32	83.08	83.76	83.65	82.88	83.43	.....	83.55
8	84.44	83.88	83.84	84.65	83.24	83.05	83.71	83.70	82.86	83.43	83.74	.....
9	84.46	83.87	83.84	84.69	83.21	83.03	83.70	83.73	82.86	83.60	83.76	.....
10	84.43	83.86	83.82	84.70	83.26	83.02	83.68	83.71	82.84	.....	83.80	.....
11	84.33	83.86	83.80	84.71	83.35	83.00	83.65	83.69	82.81	.....	83.83	.....
12	84.17	83.87	83.80	84.71	83.48	82.98	83.63	83.66	.....	83.94	83.84	.....
13	83.49	83.89	83.87	84.68	83.58	82.94	83.78	83.61	.....	84.04	83.97	.....
14	83.48	83.87	83.97	84.69	83.67	82.90	83.90	83.53	82.87	84.10	84.07	.....
15	82.95	83.86	84.01	84.74	83.73	82.87	83.98	83.46	83.09	84.14	84.14	.....
16	82.94	83.84	84.06	84.75	83.78	82.85	84.01	83.40	83.24	84.17	84.19	.....
17	83.13	83.80	84.09	84.73	83.79	82.84	84.02	83.35	83.38	84.19	84.24	.....
18	83.30	83.80	84.10	84.65	83.79	82.83	.....	83.29	83.47	84.19	84.28	.....
19	83.45	83.78	84.08	84.55	83.74	82.83	.....	83.28	83.58	84.19	84.30	.....
20	83.58	83.74	84.05	84.46	83.72	.....	83.87	83.28	83.58	84.16	84.31	.....
21	83.63	83.68	84.04	84.43	83.70	.....	83.79	83.28	83.58	84.15	84.33	.....
22	83.60	83.64	84.07	84.36	83.68	83.63	83.73	83.28	83.60	84.15	84.34	.....
23	83.59	83.63	84.10	84.30	83.66	83.73	83.78	83.28	83.62	84.13	84.34	.....
24	83.62	83.61	84.13	.....	83.65	83.83	83.84	83.28	83.61	84.11	84.33	.....
25	83.64	83.58	84.22	.....	83.62	83.88	83.86	83.28	83.59	84.07	84.31	.....
26	83.67	83.58	84.35	.....	83.59	83.92	83.87	83.25	83.57	84.03	84.28	.....
27	83.69	83.56	84.48	.....	83.55	83.95	83.87	83.23	83.56	83.98	84.24	.....
28	83.69	83.64	84.56	83.87	83.50	83.98	83.85	83.21	83.55	83.93	84.19	.....
29	83.72		84.60	83.80	83.44	83.99	83.80	83.18	83.54	83.88	84.10	.....
30	83.74		84.58	83.74	83.40	83.99	83.74	83.14	83.53	83.83	84.05	.....
31	83.77		84.59		83.35		83.67	83.09		83.79		.....

e Estimated.

## Rowan County

8320-3810-1. Nick Trkula. Lat. 38°12', long. 83°24'. Dug unused water-table well in shales and sandstones of Mississippian age, diameter 30 inches, depth 24 feet. Land-surface datum is about 780 feet above msl. Highest water level 6.00 below lsd, May 2, 1954; lowest 15.37 below lsd, Dec. 19, 1953. Records available: 1953-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.76	11.41	8.03	11.32	8.70	11.75	12.28	12.42	12.32	12.32	11.94	11.39
2	14.75	11.42	9.58	11.33	6.27	11.82	12.31	12.43	12.38	12.29	12.04	11.44
3	14.83	11.43	6.62	11.38	8.12	11.77	12.28	12.46	12.43	12.30	11.99	11.46
4	14.87	11.43	8.08	11.42	7.53	11.87	12.28	12.50	12.51	12.33	11.84	11.49
5	14.77	11.43	10.27	11.43	9.48	11.98	12.27	12.47	12.54	12.36	11.40	11.56

## 8320-3810-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	14.80	11.43	10.96	11.44	11.53	11.99	12.29	12.22	12.54	12.41	11.46	11.72
7	14.90	11.52	11.16	11.37	9.74	11.97	12.28	12.28	12.55	12.54	11.67	11.70
8	14.94	11.45	10.81	11.38	7.33	11.96	12.27	12.32	12.58	12.53	11.80	11.65
9	14.91	11.48	10.70	11.39	8.75	11.97	12.30	11.23	12.59	12.49	11.88	11.30
10	14.94	11.52	11.08	11.41	10.41	11.98	12.33	11.42	12.57	12.46	11.98	11.43
11	14.84	11.61	11.29	11.30	10.92	11.96	12.35	11.66	12.62	12.43	12.01	11.52
12	14.74	11.76	8.85	11.05	11.27	11.82	12.36	11.83	12.70	12.45	12.03	11.49
13	14.61	11.69	8.70	11.29	11.30	11.90	12.34	11.94	12.72	12.53	12.02	11.30
14	14.42	11.62	8.63	11.30	11.30	11.96	12.32	12.01	12.72	12.53	12.04	11.31
15	11.32	11.65	10.49	11.31	11.32	11.98	12.32	12.04	12.72	12.45	12.06	11.30
16	9.60	11.63	11.16	9.65	11.36	12.00	12.37	12.06	12.74	12.10	12.07	11.33
17	11.33	11.73	11.28	6.35	11.42	12.04	12.50	12.13	12.75	12.29	12.12	10.65
18	11.43	11.63	11.29	7.92	11.44	12.08	12.50	12.16	12.75	12.38	12.12	8.60
19	11.40	11.61	11.29	10.15	11.48	12.09	12.47	12.21	12.73	12.47	12.08	10.98
20	11.29	11.53	11.32	11.00	11.42	12.08	12.47	12.26	10.62	12.48	11.34	11.27
21	9.27	11.43	11.37	11.24	11.49	12.07	12.49	12.32	11.07	12.45	11.58	11.28
22	11.30	11.53	11.38	11.29	11.56	12.07	12.49	12.38	11.45	12.50	11.77	11.29
23	11.33	11.54	11.35	11.28	11.63	12.10	11.21	12.42	11.75	12.56	11.75	11.28
24	11.38	11.51	11.37	11.30	11.66	12.15	11.65	12.43	11.90	12.58	11.50	11.30
25	11.41	11.50	11.34	11.30	11.68	12.15	11.91	12.40	11.96	12.56	11.42	11.34
26	11.43	11.59	10.88	11.31	11.73	12.14	12.08	12.40	12.03	12.52	11.45	11.38
27	10.81	11.56	11.27	11.32	11.74	12.15	12.18	12.45	12.08	12.47	11.38	11.38
28	11.31	10.79	11.29	7.39	11.71	12.21	12.25	12.48	12.14	11.68	11.30	8.85
29	11.36		11.30	8.35	11.75	12.23	12.29	12.00	12.22	11.78	11.42	6.25
30	11.41		11.29	10.35	11.84	12.24	12.32	12.06	12.29	11.52	11.45	8.55
31	11.45		11.30		11.83		12.35	12.19		11.82		10.62

8320-3810-2. Nick Trkula. Lat. 38°12', long. 83°24'. Drilled unused water-table well in shales and sandstones of Mississippian age, diameter 5 inches, depth 33 feet. Land-surface datum is about 780 feet above msl. Highest water level 12.13 below lsd, May 1, 1954; lowest 18.81 below lsd, July 2, 1954. Records available: 1953-54.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.82	15.15	14.82	14.28	12.30	15.32	17.32	16.40	18.28	15.71	15.87	15.13
2	16.79	15.30	14.40	14.42	12.60	15.39	18.75	16.25	15.90	15.79	15.70	15.12
3	16.84	15.39	13.78	14.72	12.60	15.44	16.27	16.17	15.92	15.75	15.64	15.25
4	16.80	15.40	13.56	14.82	12.70	15.48	16.28	16.43	16.22	15.71	15.60	15.30
5	16.74	15.55	13.50	14.86	12.83	15.56	18.15	16.14	16.05	15.74	15.60	15.42
6	16.81	15.58	13.55	14.90	12.90	15.58	16.18	16.19	16.05	15.82	15.50	15.42
7	16.79	15.67	13.56	15.03	12.87	15.58	16.13	16.01	16.05	15.85	15.58	15.41
8	16.75	15.59	13.76	15.13	12.60	15.60	16.22	15.92	16.05	15.83	15.65	15.40
9	16.73	15.65	13.50	15.11	12.70	15.70	16.24	15.00	16.04	15.84	15.65	15.38
10	16.72	15.66	13.55	15.09	12.94	15.90	16.24	14.72	17.48	15.82	15.67	15.23
11	16.67	15.75	13.52	15.06	12.92	15.62	16.27	15.50	16.10	15.80	15.66	15.20
12	16.71	15.92	13.50	14.96	13.01	15.65	16.28	15.18	16.15	15.85	15.66	15.17
13	16.71	15.82	13.35	14.19	13.28	15.65	16.29	15.25	16.17	15.97	15.62	14.90
14	16.60	15.85	13.25	13.94	13.77	15.63	16.33	15.32	16.17	15.90	15.65	14.57
15	16.51	15.87	13.34	13.71	14.04	15.61	16.35	15.50	16.26	15.79	15.64	14.42
16	15.90	15.85	13.48	12.98	14.23	15.66	16.49	15.52	16.27	15.75	15.68	14.15
17	15.25	15.90	13.48	13.01	14.43	15.70	16.50	15.57	16.32	15.85	15.71	13.53
18	14.82	15.92	13.81	13.11	14.50	15.70	16.44	15.60	16.39	15.83	15.69	13.53
19	15.15	15.88	13.96	13.21	14.61	15.74	16.44	15.67	16.37	15.85	15.62	13.62
20	15.28	15.77	14.24	13.52	14.68	15.76	16.43	15.72	15.78	15.85	15.60	14.04
21	14.43	15.82	14.54	13.25	14.82	15.78	16.42	15.77	15.09	15.87	15.60	14.30
22	14.12	15.86	14.69	13.62	14.85	15.78	16.12	15.88	14.89	15.85	15.55	14.49
23	14.28	15.80	14.76	14.00	14.95	15.85	16.04	15.88	15.00	15.92	15.50	14.71
24	14.75	15.76	14.95	13.99	15.01	15.90	16.04	15.95	15.17	16.01	15.50	14.76
25	14.95	15.73	14.95	14.17	15.10	15.90	16.06	15.88	15.30	15.89	15.52	14.83
26	15.17	15.75	15.06	14.29	15.18	15.91	16.09	15.93	15.40	15.90	15.33	14.88
27	15.20	15.74	14.48	13.97	15.26	15.95	16.13	15.94	15.48	15.84	15.33	14.55
28	14.97	15.67	14.01	13.42	15.24	15.98	16.14	15.89	15.57	15.90	15.36	14.40
29	14.60		13.86	13.34	15.24	16.06	16.15	15.78	15.69	15.66	15.20	13.43
30	14.88		13.99	13.07	15.34	16.07	16.24	15.73	15.25	15.70	15.00	13.42
31	15.06		14.09		15.34		17.86	17.88		15.73		13.47

Scott County

8430-3820-7. W. T. Nelson. Lat. 38°21', long. 84°32'. Dug unused water-table well in shale and limestone of Eden formation, diameter 36 inches, depth 20 feet. Land-surface datum is about 990 feet above msl. Highest water level 18.30 below lsd, Mar. 27, 1953; lowest 19.56 below lsd, Jan. 12-13, 1954. Records available: 1953-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.53	19.30	19.31	19.32	19.24	19.42	19.24	19.27	19.32	19.24	19.33	19.39
2	19.53	19.30	19.31	19.32	19.24	19.42	19.24	19.27	19.32	19.25	19.33	19.39
3	19.54	19.30	19.31	19.33	19.25	19.42	19.24	19.27	19.32	19.25	19.34	19.40
4	19.54	19.31	19.33	19.33	19.25	19.42	19.24	19.27	19.32	19.25	19.34	19.40
5	19.54	19.31	19.32	19.34	19.25	19.42	19.24	19.27	19.32	19.26	19.34	19.40
6	19.54	19.32	19.32	19.34	19.27	19.42	19.24	19.27	19.32	19.27	19.35	19.41
7	19.55	19.32	19.32	19.34	19.28	19.42	19.24	19.27	19.33	19.27	19.35	19.42
8	19.55	19.32	19.32	19.33	19.28	19.43	19.24	19.27	19.33	19.27	19.35	19.42
9	19.55	19.32	19.32	19.34	19.29	19.43	19.24	19.28	19.33	19.27	19.36	19.41
10	19.55	19.33	19.32	19.34	19.30	19.43	19.24	19.28	19.33	19.28	19.36	19.42
11	19.55	19.33	19.32	.....	19.31	19.43	19.25	19.28	19.33	19.29	19.37	19.42
12	19.56	19.33	19.32	.....	19.32	19.43	19.25	19.28	19.34	19.29	19.37	19.42
13	19.56	19.34	19.33	.....	19.33	19.43	19.25	19.28	19.34	19.29	19.37	19.42
14	19.54	19.34	19.33	19.34	19.33	19.23	19.25	19.29	19.34	19.27	19.37	19.42
15	19.53	19.34	19.33	19.35	19.34	19.23	19.25	19.29	19.34	19.26	19.38	19.42
16	19.49	19.34	19.34	19.35	19.35	19.20	19.25	19.29	19.34	19.27	19.38	19.42
17	19.50	19.34	19.34	19.29	19.35	19.21	19.26	19.29	19.34	19.28	19.38	19.42
18	19.50	19.35	19.34	19.15	19.36	19.22	19.26	19.29	19.35	19.28	19.38	19.42
19	19.50	19.35	19.31	19.15	19.37	19.22	19.26	19.30	19.35	19.29	19.38	19.42
20	19.45	19.35	19.32	19.16	19.38	19.22	19.26	19.30	19.27	19.29	19.38	19.44
21	19.33	19.35	19.32	19.17	19.38	19.22	19.26	19.30	19.23	19.29	19.38	19.43
22	19.34	19.35	19.32	19.17	19.39	19.22	19.26	19.30	19.25	19.30	19.38	19.44
23	19.36	19.36	19.33	19.18	19.40	19.23	19.26	19.30	19.25	19.31	19.38	19.44
24	19.35	19.36	19.33	19.19	19.41	19.23	19.26	19.30	19.24	19.31	19.38	19.44
25	19.35	19.36	19.31	19.20	19.41	19.23	19.26	19.31	19.24	19.31	19.38	19.44
26	19.35	19.36	19.32	19.21	19.42	19.23	19.26	19.31	19.24	19.32	19.38	19.44
27	19.28	19.37	19.32	19.21	19.42	19.23	19.27	19.31	19.24	19.32	19.38	19.45
28	19.28	19.32	19.32	19.22	19.42	19.24	19.27	19.31	19.24	19.32	19.38	19.40
29	19.29		19.32	19.23	19.42	19.24	19.27	19.31	19.24	19.32	19.38	19.32
30	19.29		19.32	19.23	19.42	19.24	19.27	19.31	19.24	19.32	19.39	19.28
31	19.29		19.32		19.42		.....	19.31		19.33		.....

Union County

8755-3735-10. J. A. Schneider. Lat. 37°39', long. 87°56'. Drilled unused artesian well in fault zone in middle part of Pennsylvanian system, diameter 6 inches, depth 59 feet. Highest water level 3.48 below lsd, Feb. 4, 1952; lowest 18.06 below lsd, Dec. 1, 1953. Records available: 1951-54.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	7.60	7.60	7.20	7.86	10.86	13.40	14.37	15.04	15.09	15.04
2	.....	9.55	7.55	7.51	7.13	7.96	10.97	13.27	14.41	15.04	15.14	15.02
3	.....	9.50	7.62	7.61	6.89	7.83	11.05	13.34	14.46	15.05	15.11	14.97
4	.....	9.48	7.65	7.56	6.81	7.91	11.17	13.39	14.52	15.07	15.07	14.96
5	.....	9.55	7.60	7.57	6.80	7.95	11.25	13.42	14.58	15.10	15.11	14.86
6	.....	9.57	7.58	7.41	6.83	7.98	11.37	13.37	14.63	15.14	15.07	14.84
7	.....	9.68	7.53	7.15	6.67	8.03	11.45	13.53	14.68	15.18	15.09	14.72
8	.....	9.50	7.57	7.17	6.66	8.11	11.53	13.55	14.72	15.17	15.10	14.60
9	.....	9.41	7.50	7.01	6.72	e8.21	11.65	13.64	14.75	15.17	15.10	14.56
10	.....	9.41	7.52	6.97	6.76	e8.31	11.74	13.69	14.81	15.17	15.12	14.57
11	.....	9.53	7.54	6.99	6.78	e8.42	11.83	13.77	14.87	15.18	15.11	14.54
12	.....	9.74	7.56	7.06	6.84	e8.52	11.90	13.81	14.93	15.20	15.09	14.44
13	.....	9.58	7.67	6.97	6.89	e8.63	11.98	13.86	14.96	15.24	15.06	14.27
14	.....	9.47	7.84	6.95	6.97	e8.73	12.07	13.91	15.01	15.22	15.07	14.10
15	.....	9.47	7.97	6.97	7.05	e8.83	12.18	13.97	15.05	15.13	15.06	14.00
16	.....	9.23	8.02	6.84	7.11	8.94	12.30	14.02	15.10	15.13	15.04	13.96
17	.....	8.99	7.96	6.80	7.19	9.09	12.36	14.05	15.14	15.12	15.05	13.83
18	.....	8.75	7.83	6.74	7.25	e9.20	12.40	14.10	15.16	15.15	15.04	13.78
19	.....	8.58	7.62	6.85	7.31	e9.33	12.49	14.15	15.19	15.14	15.01	13.79
20	.....	8.18	7.81	6.93	7.38	e9.45	12.57	13.94	15.24	15.11	15.05	13.75

8755-3735-10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	.....	8.09	7.92	6.94	7.40	e9.57	12.63	13.91	14.95	15.10	15.05	13.71
22	.....	8.06	7.85	6.96	7.44	e9.69	12.70	13.93	14.91	15.12	15.06	13.65
23	.....	7.84	7.85	6.99	7.50	e9.80	12.76	13.95	14.90	15.13	15.03	13.59
24	.....	7.76	7.80	7.02	7.55	e9.92	12.86	13.97	14.88	15.12	15.02	13.65
25	.....	7.62	7.68	7.05	e7.60	10.03	12.94	13.99	14.91	15.12	15.05	13.63
26	.....	7.75	7.80	7.08	e7.66	10.15	13.02	14.04	14.91	15.10	15.06	13.60
27	.....	7.61	7.70	7.08	e7.71	10.29	13.07	14.10	14.93	15.13	14.98	13.56
28	h10.12	7.65	7.62	7.14	7.74	10.45	13.14	14.15	14.97	15.11	14.97	13.34
29	.....		7.57	7.14	7.80	10.58	13.22	14.20	15.00	15.08	15.09	13.61
30	.....		7.57	7.18	7.85	10.71	13.30	14.25	15.01	15.11	15.09	13.68
31	.....		7.52		7.82		13.36	14.31		15.12		13.51

e Estimated.

h Tape measurement.

## MARYLAND

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By Claire A. Richardson

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### Scope of Water-Level Program

The observation-well program in Maryland was continued during 1954 in cooperation with the State Department of Geology, Mines and Water Resources. Measurements were made in 101 observation wells: 10 in the Appalachian Plateau and Ridge and Valley provinces, 18 in the Piedmont province, and 73 in the Coastal Plain province. Figures 31 and 32 show the location of observation wells.

From 1949 through 1953, water-level measurements in Caroline, Cecil, Dorchester, Kent, Queen Annes, Somerset, Talbot, Wicomico, and Worcester Counties were listed under the heading "Eastern Shore."

### Precipitation

The annual precipitation in Maryland in 1954 was 34.45 inches, which was 7.54 inches below normal. In March, August, and October the precipitation was 0.26 to 0.78 inch above normal; in the other months it was less than normal, being as much as 2.22 inches below normal in June.

### Interpretation of Water-Level Fluctuations

Appalachian Plateau and Ridge and Valley provinces. --The water levels in all but 2 wells showed a net rise for the year, the average net rise for the entire area being 3.98 feet. The net rise in well Wa-Bh 3 near Hagerstown, Washington County, amounted to 16.22 feet. Most highs were scattered through the first 5 months of the year; most lows occurred in January and February. Record highs were reached in 2 wells in March, and a record low was reached in 1 well in December. This was the only area showing a net rise for the year. This part of the State had above-normal precipitation in March, when one Weather Bureau station reported 2.97 inches above normal, and in October, when the passage of hurricane "Hazel" resulted in 5.09 inches above normal at Oakland, Garrett County.

Piedmont province. --The water levels in all observation wells in this province showed a net decline for 1954, the average decline being 3.69 feet. The decline amounted to as much as 11.08 feet in well Mont-Dc 1 at Dawsonville, Montgomery County. Most highs were reached in April and May, and most lows were reached in November and December. This conforms to the usual seasonal cycle found in water-table wells in Maryland. A record high was established in Carroll County well Car-Dd 2 in May, and record lows were established in 4 wells in the fall and early winter.

Baltimore industrial area. --The water levels in most wells in this area showed a net decline for the year, the average net decline being 0.39 foot. Two wells in the Sparrows Point district (Bal-Gf 168 and Bal-Gf 169) showed net declines of 9.79 and 8.04 feet, respectively. Record highs were reached in 4 wells and record lows in 2 wells. Most highs for the year were scattered from February through June, and most lows were in February, September, and December. Net rises for the year occurred in the Curtis Bay, Fairfield, Dundalk, and Bay Shore Park districts. Net declines for the year occurred in the Poplar, Back River, Sparrows Point, Highlandtown, and Harbor districts. All the observation wells in the Baltimore industrial area end in either the Patuxent or the Patapsco formation. Water levels in wells ending in the Patuxent formation showed a net rise of 1.00 foot, and the levels in wells in the Patapsco formation showed a decline of 3.74 feet. All wells in the Baltimore industrial area, with one or two exceptions, are artesian wells. Therefore, they reflect changes in pumping rather than changes in the level of the water table. Some wells show a seasonal decline in water level during the summer, usually due to an increased use of water at that time.

Coastal Plain (western part). --The water levels in the part of the Coastal Plain west of Chesapeake Bay showed an average net decline of 0.33 foot for 1954. Most wells in this area are artesian wells, and several of them reflect chiefly changes in pumpage rather than fluctuations due solely to natural causes. Thus, well Ch-Cb 7 at Indian Head, Charles County, in the Patapsco formation, showed a net decline of 3.57 feet; well AA-Cd 10 at Crownsville, Anne Arundel County,

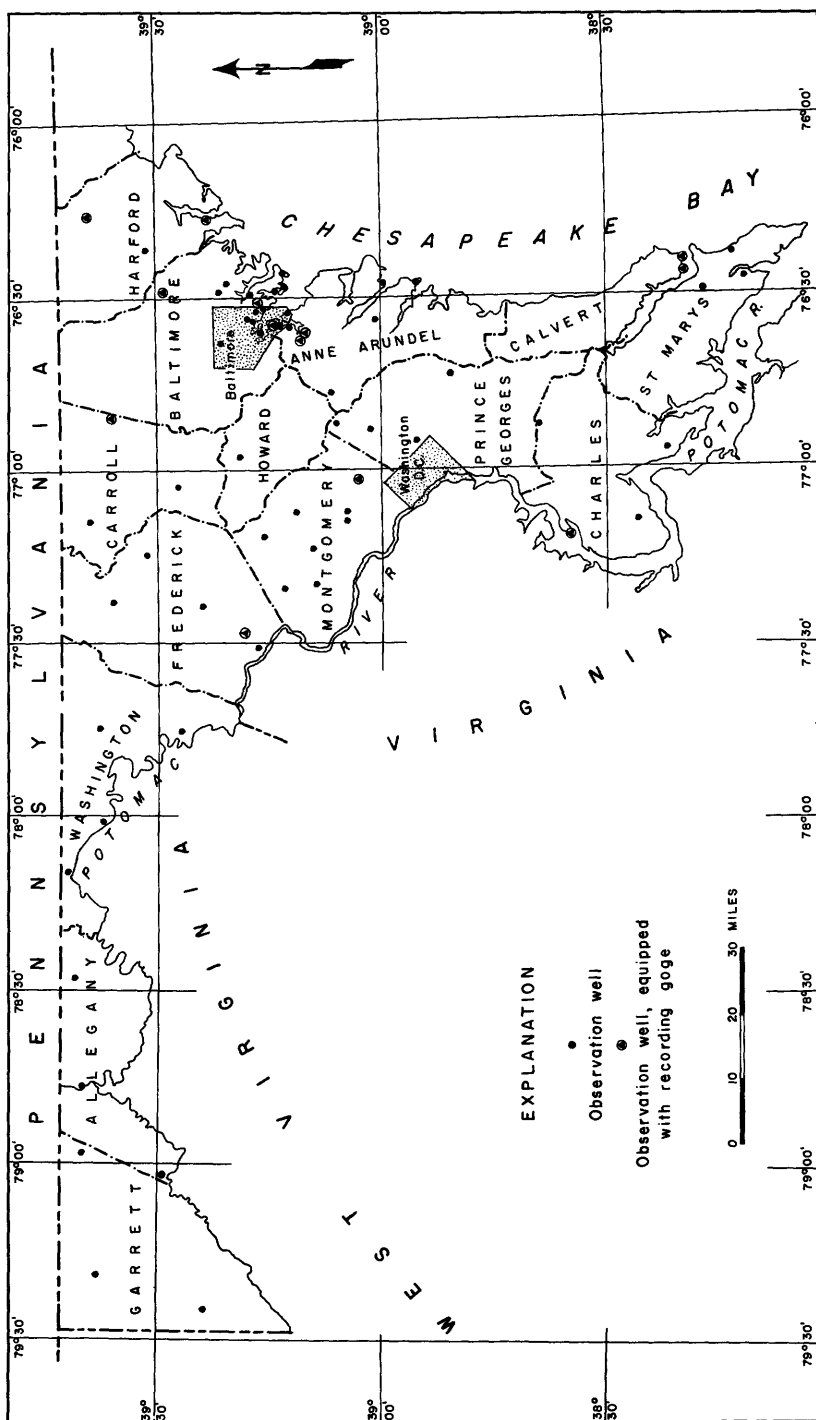


Figure 31. - Location of observation wells in western and central Maryland 1954

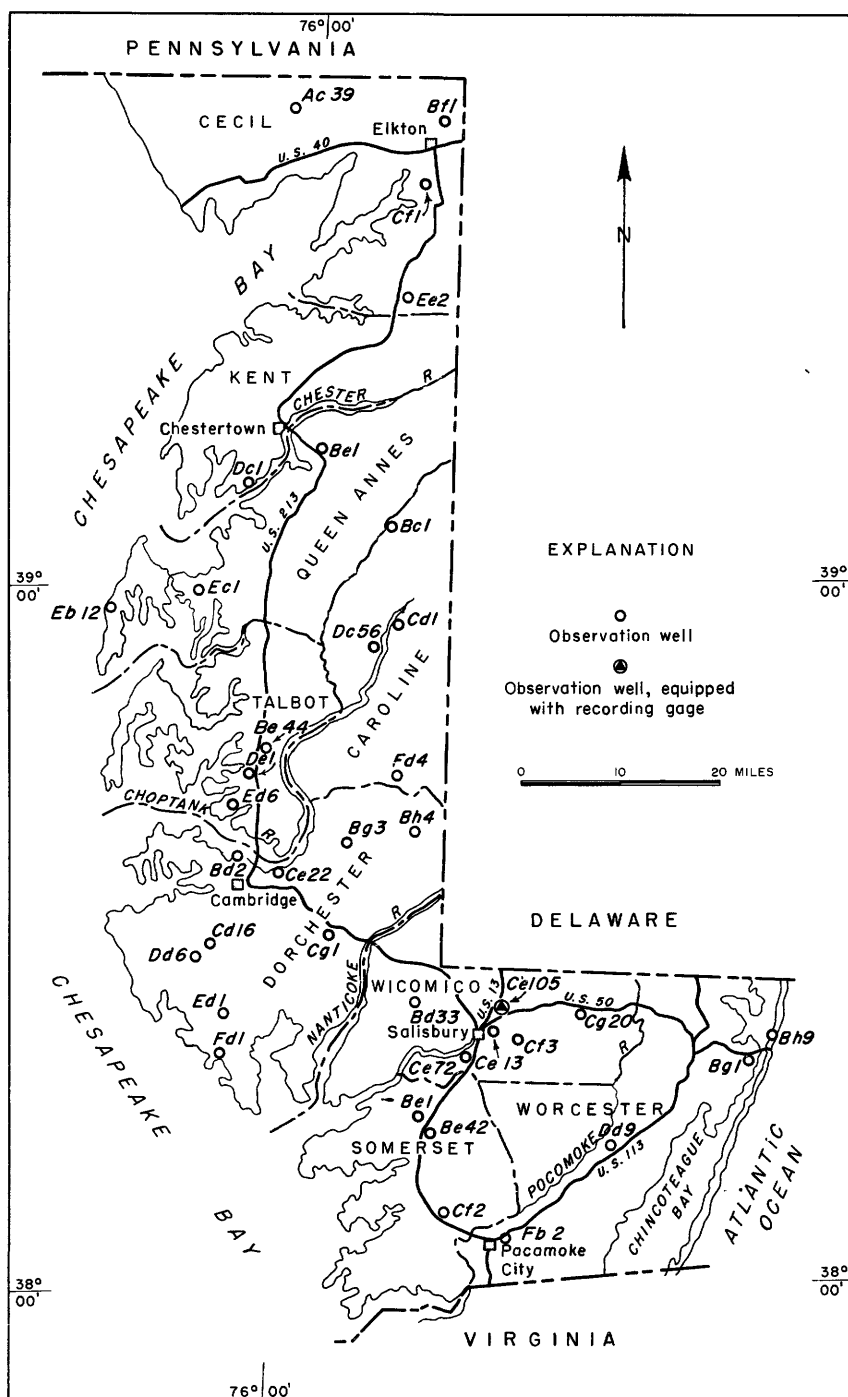


Figure 32. --Location of observation wells on Eastern Shore, Md., 1954.

ending in the same formation, showed a net rise of 7.33 feet. Record lows were reached in 8 wells. Most highs occurred in February and June; most lows in October, November, and December.

Coastal Plain (eastern part). --The water levels in the part of the province east of Chesapeake Bay showed an average net decline of 1.52 feet for 1954. Most highs occurred in January, March, April, and May; most lows in September, November, and December. Record highs were reached in 5 wells, and record lows were reached in 17 wells. Most observation wells in this area are water-table wells and therefore reflect chiefly seasonal fluctuations in the water table. The levels in five of the artesian wells (Dor-Bd 2, Dor-Ce 22, Tal-Ed 6, Dor-Dd 6, and Dor-Ed 1) reflect pumping from the so-called "400-foot" aquifer at Cambridge. Well Dor-Bd 2, nearest the center of pumpage, showed a net decline of 7.43 feet; the farthest well, Dor-Ed 1, showed a net decline of only 1.43 feet.

#### Well-Numbering System

All wells outside of Baltimore City are grouped by counties. Each county is divided into 5-minute quadrangles. Each quadrangle from north to south is designated by uppercase letters and from west to east by lowercase letters. The wells are numbered in each 5-minute quadrangle in the order in which they were inventoried. A different well-numbering system is used for wells in Baltimore City. All wells within the city limits are referred to mile squares which are in turn referred to the Washington Monument, near the center of the city. Thus, well 2S3E-9 is in the square mile that is 2 miles south and 3 miles east of the Washington Monument and was the ninth well inventoried in that square.

#### Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

#### City of Baltimore

4N2W-9. Baltimore Country Club. Falls and Harvest Rds. Lat. 39°21'06", long. 76°37'58". Drilled unused water-table well in Precambrian rocks, diameter 6 inches, depth 114 feet. Land-surface datum is 220 feet above msl. Highest water level 6.46 below lsd, Mar. 14, 1949; lowest 14.26 below lsd, Dec. 29, 1954. Records available: 1943-54. Feb. 4, 11.78; Mar. 19, 11.05; May 12, 11.46; May 18, 11.55; Sept. 8, 13.85; Sept. 29, 14.06; Dec. 29, 14.26.

1S3E-12. Kimball Tyler Co., Inc. Haven and Gough Sts. Lat. 39°17'23", long. 76°33'17". Drilled unused artesian well in Patuxent formation, diameter 6 inches, depth 172 feet. Land-surface datum is 60 feet above msl. Highest water level 101.97 below lsd, Mar. 30, 1953; lowest 124.51 below lsd, June 20, 1947. Records available: 1944-54. Feb. 4, 111.32; Mar. 17, 110.45; June 2, 109.71; Sept. 8, 113.89; Dec. 28, 114.03.

2S1E-16. Buck Glass Co. Lawrence St. and Fort Ave. Lat. 39°16'16", long. 76°36'10". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 112 feet. Land-surface datum is 40 feet above msl. Highest water level 35.91 below lsd, Feb. 8, 1954; lowest 58.19 below lsd, Apr. 6, 1944. Records available: 1944-54. Feb. 8, 35.91; Apr. 7, 40.15; May 18, 40.01; June 30, 42.62; Sept. 7, 36.59; Oct. 12, 41.17; Dec. 28, 36.36.

2S3E-11. J. S. Young Co. Boston St. and Luzerne Ave. Lat. 39°16'34", long. 76°34'44". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 160 feet. Land-surface datum is 12 feet above msl. Highest water level 30.60 below lsd, July 29, 1948; lowest 37.44 below lsd, June 3, 1944. Records available: 1943-54. Feb. 4, 31.81; Mar. 17, 31.53; June 2, 31.59; Sept. 8, 32.07; Dec. 28, 32.23.

2S5E-1. U. S. Army. Holabird Ave. and Pumphrey St. Lat. 39°16'18", long. 76°32'20". Drilled unused artesian well in Patuxent formation, diameter 12 inches, depth 290 feet. Land-surface datum is 18 feet above msl. Highest water level 80.89 below lsd, June 22, 1943; lowest 103.70 below lsd, Oct. 15, 1948. Records available: 1943-54. Feb. 4, 96.73; Mar. 17, 94.02; June 2, 94.70; Sept. 8, 94.28; Dec. 28, 93.38.

3S5E-3. Federal Yeast Corp. Dundalk. Lat. 39°15'52", long. 76°32'20". Drilled unused artesian well in Patapsco formation, diameter 6 inches, depth 131 feet. Land-surface datum is 12 feet above msl. Highest water level 38.30 below lsd, May 10, 1947; lowest 51.22 below lsd, Apr. 22, 1945. Records available: 1943-54. Feb. 4, 43.30; Mar. 17, 42.11; June 2, 42.26; Sept. 8, 42.35; Dec. 28, 42.03.

4S3E-3. Virginia-Carolina Chemical Corp. Fairfield. Lat. 39°14'33", long. 76°34'28". Drilled unused artesian well in Patuxent formation, diameter 18 inches, depth 357 feet, cased to 325. Land-surface datum is 20 feet above msl. Highest water level 40.37 below lsd, Aug. 28, 1952; lowest 72.11 below lsd, Oct. 24, 1947. Records available: 1947-54.



4S3E-3--Continued.

Daily lowest water level from recorder graph\*

Day	Jan.	Feb.	Apr.	Sept.	Oct.	Nov.	Dec.
1	63.56	64.05	.....	.....	64.25	61.03	63.43
2	62.58	64.44	.....	.....	64.34	62.31	63.47
3	61.27	64.78	.....	.....	63.20	63.37	63.62
4	60.94	65.45	.....	.....	61.54	63.92	63.63
5	61.58	66.12	.....	.....	61.61	64.43	63.11
6	63.12	66.30	.....	.....	62.35	64.40	63.12
7	64.71	66.09	.....	.....	62.97	61.59	63.26
8	65.41	65.34	61.55	.....	.....	61.40	63.59
9	65.50	66.27	62.51	61.40	62.23	63.02	64.84
10	64.49	66.40	62.31	62.85	61.77	63.84	66.00
11	63.85	66.67	61.65	63.63	61.25	64.21	66.58
12	64.70	66.94	60.80	62.77	62.09	64.61	66.40
13	66.10	66.64	61.22	62.39	62.94	65.10	65.22
14	66.51	64.44	61.86	63.00	63.47	62.25	65.21
15	66.85	62.89	62.40	63.25	63.66	60.18	64.95
16	67.00	63.44	62.75	63.22	61.82	60.35	65.90
17	66.19	64.90	62.34	63.50	61.17	60.84	65.95
18	64.92	65.09	62.02	63.34	61.16	61.22	65.79
19	65.15	65.63	60.02	62.22	61.32	61.35	65.29
20	65.51	65.67	61.25	61.62	62.61	61.20	64.67
21	66.21	64.42	62.34	62.22	62.72	60.76	64.89
22	66.66	62.41	62.51	63.42	63.63	61.55	65.24
23	66.79	62.58	.....	64.18	63.63	62.78	65.18
24	64.95	62.69	.....	64.22	63.20	63.25	65.63
25	63.68	63.78	.....	63.95	62.34	63.66	65.17
26	64.20	64.06	.....	63.32	62.60	63.02	63.25
27	64.60	63.47	.....	62.36	63.48	62.92	61.54
28	66.11	.....	.....	62.50	64.45	62.21	62.47
29	66.12	.....	.....	63.25	64.19	61.95	63.16
30	65.38	.....	.....	63.50	64.54	63.23	63.95
31	65.19	.....	.....	.....	62.31	.....	64.35

\* No record for March, May, June, July, and August.

6S2E-6. U. S. Industrial Alcohol Co. Birch St. and Curtis Ave. Lat. 39°13'20", long. 76°35'09". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 228 feet. Land-surface datum is 20 feet above msl. Highest water level 43.36 below lsd, Dec. 28, 1954; lowest 124.13 below lsd, Dec. 22, 1944. Records available: 1943-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	54.89	May 18	49.81	Sept. 9	43.78	Nov. 29	43.68
Apr. 7	49.72	June 30	49.24	Oct. 12	45.00	Dec. 28	43.36

7S5E-6. U. S. Army. Hawkins Point. Lat. 39°12'36", long. 76°32'05". Drilled unused artesian well in Patuxent formation, diameter 6 to 4 inches, depth 473 feet, cased to 472, screen 444-454. Land-surface datum is 30 feet above msl. Highest water level 46.19 below lsd, Apr. 20, 1954; lowest 49.12 below lsd, June 30, 1954. Records available: 1954. Apr. 20, 46.19; May 19, 46.38; June 30, 49.12; Sept. 9, 48.53; Nov. 30, 47.68; Dec. 28, 46.22.

7S5E-7. U. S. Army. Hawkins Point. Lat. 39°12'36", long. 76°32'05". Drilled unused artesian well in Patapsco formation, diameter 4 to 2 inches, depth 180 feet, screen 163-170. Land-surface datum is 30 feet above msl. Highest water level 36.91 below lsd, Apr. 4, 1954; lowest 41.93 below lsd, Sept. 9, 1954. Records available: 1953-54. Oct. 5, 1953, 41.69; Apr. 4, 1954, 36.91; May 19, 37.97; June 30, 40.55; Sept. 9, 41.93; Dec. 28, 39.62.

Allegheny County

All-Ah 1. State of Maryland. Green Ridge State Forest. Lat. 39°40'34", long. 78°27'34". Drilled public-supply artesian well in Jennings(?) formation, diameter 8 inches, reported depth 300 feet. Land-surface datum is 740 feet above msl. Highest water level 2.18 below lsd, Dec. 30, 1950; lowest 7.57 below lsd, July 23, 1953. Records available: 1949-54.

Feb. 1	4.59	May 3	4.10	July 19	5.30	Oct. 1	5.36
25	4.32	June 5	3.70	Aug. 16	5.10	Nov. 3	4.08
Mar. 1	3.00	15	4.30	Sept. 1	5.35	Dec. 1	3.50
16	3.60	28	4.13	26	5.42	22	3.52
Apr. 6	4.23	July 6	5.22				

All-Bd 2. Cumberland Brewing Co. Cumberland. Henderson Ave. and Valley St. Lat. 39°39'30", long. 78°46'13". Drilled unused artesian well in Clinton(?) formation, diameter 6 inches, depth 100 feet. Land-surface datum is 640 feet above msl. Highest water level 9.78 below lsd, Feb. 1, 1950; lowest 18.89 below lsd, July 22, 1952. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	17.55	Apr. 8	13.50	July 7	12.46	Oct. 5	17.35
Feb. 10	14.74	May 6	14.40	29	16.03	Nov. 8	12.05
25	17.09	June 9	13.47	Aug. 31	12.48	Dec. 2	17.17
Mar. 17	11.90	28	14.70	Sept. 26	13.54	21	11.36

All-Da 1. Cumberland & Pennsylvania RR. Co. Westernport. Lat. 39°29'38", long. 79°02'37". Drilled unused well in Conemaugh formation, diameter 12 inches, depth 88 feet. Land-surface datum is 980 feet above msl. Highest water level 1.28 below lsd, Mar. 2, 1954; lowest 5.13 below lsd, Aug. 12, 1947. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	4.84	Mar. 31	2.95	June 30	4.57	Oct. 5	4.68
Feb. 2	4.35	May 3	4.22	Aug. 2	4.35	Nov. 3	3.62
25	4.59	June 2	4.17	31	4.36	Dec. 2	2.78
Mar. 2	1.28	28	4.24	Sept. 29	4.38	21	2.12

#### Anne Arundel County

AA-Ad 10. U. S. Army Ordnance Depot. Curtis Bay. Lat. 39°12'09", long. 76°35'39". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 109 feet. Land-surface datum is 45 feet above msl. Highest water level 29.96 below lsd, June 18, 1953; lowest 35.71 below lsd, Jan. 8, 1947. Records available: 1946-54. Feb. 8, 31.61; Apr. 7, 31.82; May 18, 31.88; June 30, 32.11; Sept. 7, 32.32; Nov. 29, 33.35; Dec. 28, 34.24.

AA-Ad 29. Anne Arundel County Sanitary Commission. Glen Burnie. Lat. 39°10'18", long. 76°37'02". Drilled unused artesian well in Patuxent formation, diameter 3 to 2 inches, depth 530 feet, screen 490-530. Land-surface datum is 40 feet above msl. Highest water level 14.15 above lsd, Sept. 1, 1952; lowest 10.88 above lsd, June 10, 1948. Records available: 1948-54.

#### Daily lowest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.66	12.48	12.64	12.50	12.65	12.72	12.44	12.39	12.30	12.07	11.82	11.57
2	12.63	12.62	12.50	12.50	12.74	12.84	12.44	12.36	12.25	12.07	11.83	11.67
3	12.63	12.72	12.51	12.51	12.84	12.84	12.47	12.42	12.28	12.05	11.91	11.66
4	12.62	12.72	12.48	12.38	12.81	12.79	12.50	12.38	12.20	12.11	11.85	11.66
5	12.67	12.70	12.45	12.42	12.75	12.68	12.50	12.37	12.24	12.05	11.85	11.58
6	12.74	12.58	12.47	12.46	12.76	12.60	12.40	12.41	12.25	11.92	11.81	11.48
7	12.66	12.52	12.49	12.65	12.70	12.60	12.47	12.36	12.28	11.77	11.74	11.49
8	12.57	12.56	12.51	12.60	12.73	12.63	12.43	12.31	12.23	11.71	11.74	11.50
9	12.56	12.69	12.52	12.42	12.76	12.60	12.36	12.38	12.18	11.80	11.68	11.55
10	12.70	12.69	12.67	12.41	12.70	12.59	12.36	12.40	12.22	11.92	11.58	11.59
11	12.71	12.67	12.55	12.52	12.70	12.63	12.33	12.38	12.22	12.02	11.58	11.50
12	12.60	12.34	12.47	12.58	12.67	12.61	12.34	12.31	12.09	12.03	11.63	11.50
13	12.43	12.30	12.47	12.53	12.61	12.64	12.36	12.25	12.07	11.98	11.63	11.48
14	12.43	12.34	12.64	12.64	12.61	12.60	12.48	12.21	12.08	11.95	11.73	11.56
15	12.59	12.48	12.51	12.61	12.64	12.59	12.46	12.25	12.08	12.03	11.70	11.75
16	12.70	12.62	12.43	12.61	12.70	12.46	12.35	12.32	12.08	11.99	11.72	11.54
17	12.52	12.57	12.42	12.75	12.77	12.38	12.32	12.33	12.14	11.89	11.75	11.51
18	12.50	12.45	12.45	12.68	12.73	12.37	12.38	12.27	12.16	11.86	11.78	11.58
19	12.56	12.38	12.50	12.62	12.75	12.42	12.48	12.31	12.21	11.85	11.83	11.63
20	12.57	12.38	12.74	12.57	12.77	12.45	12.41	12.36	12.23	11.86	12.01	11.55
21	12.67	12.45	12.60	12.59	12.76	12.50	12.46	12.29	12.21	11.88	11.90	11.50
22	12.55	12.52	12.50	12.63	12.72	12.51	12.42	12.20	12.13	11.84	11.80	11.49
23	12.47	12.50	12.52	12.70	12.67	12.54	12.45	12.20	12.00	11.78	11.80	11.49
24	12.45	12.53	12.47	12.62	12.68	12.48	12.38	12.23	11.96	11.78	11.83	11.45
25	12.56	12.67	12.50	12.63	12.73	12.46	12.28	12.34	12.03	11.81	11.75	11.33
26	12.57	12.59	12.59	12.69	12.67	12.52	12.41	12.43	12.11	11.85	11.69	11.30
27	12.70	12.52	12.51	12.73	12.65	12.58	12.41	12.32	12.13	11.90	11.69	11.30
28	12.58	12.52	12.52	12.75	12.70	12.50	12.32	12.31	12.08	11.90	11.77	11.36
29	12.54		12.59	12.66	12.77	12.45	12.39	12.32	12.05	11.93	11.67	11.45
30	12.55		12.65	12.61	12.67	12.42	12.33	12.36	12.02	11.95	11.57	11.45
31	12.48		12.61		12.65		12.37	12.40		11.86		11.39

AA-Ad 30. Anne Arundel County Sanitary Commission. Glen Burnie. Lat. 39°10'18", long. 76°37'02". Drilled unused water-table well in Patapsco formation, diameter 4 inches, depth 15 feet. Land-surface datum is 40 feet above msl. Highest water level 7.99 below lsd, Mar. 30, 1953; lowest 12.16 below lsd, Jan. 25, 1950. Records available: 1948-54. Recording gage removed Jan. 7, 1954; later measurements are tape measurements.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	9.73	Jan. 4	9.78	May 18	9.83	Nov. 29	11.45
2	9.75	5	9.80	June 30	10.78	Dec. 28	11.46
3	9.76	6	9.81	Sept. 15	11.78		

AA-Bb 18. William J. Harris. Fort George G. Meade Junction. Lat. 39°07'26", long. 76°47'25". Drilled unused artesian well in Patuxent formation, diameter 6 to 4 inches, depth 108 feet. Land-surface datum is 170 feet above msl. Highest water level 18.81 below lsd, May 27, 1949; lowest 24.47 below lsd, Nov. 18, 1948. Records available: 1946-54.

Feb. 8	21.77	May 18	22.01	Sept. 7	23.61	Nov. 29	22.92
Apr. 6	21.95	July 1	22.76	Oct. 13	24.07	Dec. 29	23.52

AA-Cd 10. Crownsville State Hospital. Crownsville. Lat. 39°01'18", long. 76°36'06". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, reported depth 668 feet, screen 654-668. Land-surface datum is 135 feet above msl. Highest water level 109.62 below lsd, Mar. 15, 1949; lowest 125.51 below lsd, Nov. 6, 1951. Records available: 1949-54.

Feb. 8	111.69	May 19	116.01	Sept. 7	113.30	Nov. 29	119.05
Apr. 7	113.42	June 30	113.16	Oct. 13	113.05	Dec. 28	112.51

AA-Df 14. U. S. Naval Academy. Near Carrs Point. Lat. 38°59'17", long. 76°28'01". Drilled unused artesian well in Patapsco formation, diameter 8 to 4 inches, depth 578 feet. Land-surface datum is 60 feet above msl. Highest water level 65.40 below lsd, Jan. 2, 1951; lowest 83.95 below lsd, Apr. 7, 1954. Records available: 1946-54.

Feb. 8	69.84	May 19	72.78	Sept. 7	77.19	Nov. 29	72.26
Apr. 7	83.95	June 30	74.89	Oct. 12	77.07	Dec. 28	72.32

AA-Ef 3. C. L. Meredith. Arundel-on-the-Bay. Lat. 38°54'59", long. 76°27'39". Drilled unused well in Aquia greensand, diameter 1½ inches, depth 61 feet. Land-surface datum is 7 feet above msl. Highest water level 5.00 below lsd, Apr. 8, 1948; lowest 7.07 below lsd, Dec. 28, 1954. Records available: 1946-54.

Feb. 8	6.32	May 18	6.53	Sept. 7	6.52	Nov. 29	6.59
Apr. 7	6.41	June 30	6.36	Oct. 12	6.75	Dec. 28	7.07

#### Baltimore County

Bal-Df 39. U. S. Geol. Survey. Hydes. Lat. 39°29'00", long. 76°29'38". Drilled unused water-table well in Cockeysville marble, diameter 6 inches, depth 164 feet, cased to 126, screen 96-104. Land-surface datum is 330 feet above msl. Highest water level 20.68 below lsd, Jan. 31, 1954; lowest 21.83 below lsd, Nov. 18-20, 1954. Records available: 1954.

#### Daily lowest water level from recorder graph\*

Day	Jan.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	21.15	.....	21.61	.....	21.55
2	.....	.....	21.18	.....	21.61	21.79	21.54
3	.....	.....	21.18	.....	21.62	21.78	21.54
4	.....	.....	21.19	.....	21.64	21.75	21.55
5	.....	.....	21.20	.....	21.64	21.75	21.58
6	.....	.....	21.20	.....	21.65	21.76	21.59
7	.....	.....	21.20	.....	21.65	21.77	21.61
8	.....	.....	21.20	.....	21.66	21.79	21.61
9	.....	.....	21.20	.....	21.67	21.80	21.62
10	.....	.....	21.19	.....	21.67	21.80	21.59
11	.....	.....	21.19	.....	21.68	21.80	21.53
12	.....	.....	21.19	.....	21.69	21.81	21.50
13	.....	.....	21.19	.....	21.69	21.81	21.50
14	.....	20.91	21.20	.....	21.70	21.81	21.50
15	.....	20.92	21.21	.....	21.75	21.81	21.37
16	.....	20.95	21.24	.....	21.73	21.82	21.30
17	.....	20.98	21.24	.....	21.73	21.82	21.28
18	.....	20.98	21.25	.....	21.73	21.83	21.28
19	.....	20.99	21.29	.....	21.74	21.83	21.19
20	.....	21.00	.....	.....	21.74	21.83	21.14
21	.....	21.01	.....	.....	21.74	21.73	21.11
22	.....	21.00	.....	.....	21.75	21.62	21.09
23	.....	.....	.....	.....	21.75	21.57	21.11
24	.....	.....	.....	21.52	21.76	21.56	21.13
25	.....	.....	.....	21.53	21.77	21.54	21.14

## Bal-Df 39--Continued.

Day	Jan.	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	.....	.....	.....	21.54	.....	21.54	21.16
27	.....	21.10	.....	21.55	.....	21.57	.....
28	.....	21.10	.....	21.55	.....	21.58	.....
29	.....	21.10	.....	21.56	.....	21.58	.....
30	.....	21.11	.....	21.57	.....	21.55	.....
31	h20.68	21.12	.....	.....	.....	.....	20.77

\* No record for February, March, April, May, and June.

h Tape measurement.

Bal-Ef 16. State Roads Commission. King Ave. and Babikow Rd. Lat. 39°21'31", long. 76°28'52". Dug water-table well in Patuxent formation used for forest-fire prevention, diameter 36 inches, depth 8 feet. Land-surface datum is 100 feet above msl. Highest water level 3.19 below lsd, May 7, 1948; lowest 7.90 below lsd, Sept. 21, 1949. Records available: 1944-54. Feb. 4, 3.94; Mar. 17, 4.22; June 2, 4.29; Sept. 8, 4.37; Dec. 28, 4.21.

Bal-Ef 19. United Clay Mines Corp. Poplar. Lat. 39°21'10", long. 76°27'33". Drilled unused well in Patuxent formation, diameter 6 inches, depth 66 feet. Land-surface datum is 100 feet above msl. Highest water level 56.10 below lsd, May 1, 1952; lowest 64.55 below lsd, Dec. 28, 1950. Records available: 1944-54. Feb. 4, 57.02; Mar. 17, 57.86; June 2, 57.37; Sept. 8, 58.29; Dec. 28, 59.40.

Bal-Fe 19. Paul Jones & Co., Inc. Dundalk. Baltimore & Ohio RR. and Willow Spring St. Lat. 39°16'08", long. 76°31'51". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 402 feet, 35 feet of screen. Land-surface datum is 20 feet above msl. Highest water level 76.14 below lsd, July 28, 1952; lowest 97.42 below lsd, June 9, 1951. Records available: 1944-54. Measurement discontinued.

## Daily lowest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	90.97	Feb. 4	90.86	Feb. 19	90.72	Mar. 6	90.42
21	90.96	5	91.07	20	90.33	7	87.70
22	90.85	6	91.11	21	86.95	8	88.27
23	90.78	7	88.89	22	85.35	9	89.20
24	88.97	8	88.57	23	86.93	10	89.90
25	89.46	9	89.87	24	88.55	11	90.33
26	90.76	10	90.62	25	89.51	12	90.45
27	92.00	11	91.32	26	90.49	13	89.72
28	91.95	12	91.80	27	90.53	14	86.97
29	92.07	13	91.75	28	87.65	15	87.90
30	92.06	14	88.21	Mar. 1	87.80	16	89.21
31	88.97	15	87.73	2	88.52	17	89.76
Feb. 1	88.57	16	88.77	3	89.17	18	90.20
2	89.75	17	89.76	4	89.92	19	90.29
3	90.70	18	90.53	5	90.33		

Bal-Ff 1. City of Baltimore. Back River Sewage Disposal Plant. Lat. 39°17'46", long. 76°29'45". Drilled unused artesian well in Patuxent formation, diameter 6 inches, depth 156 feet. Land-surface datum is 30 feet above msl. Highest water level 39.84 below lsd, May 20, 1946; lowest 47.29 below lsd, Dec. 30, 1949. Records available: 1943-54. Feb. 4, 44.80; Mar. 17, 45.30; June 2, 43.46; Sept. 8, 42.98; Dec. 28, 45.24.

Bal-Gf 6. Bethlehem Steel Co. Sparrows Point. Lat. 39°14'00", long. 76°29'42". Drilled unused artesian well in Patuxent formation, diameter 12 to 5 inches, depth 625 feet, screen 602-625. Land-surface datum is 10 feet above msl. Highest water level 71.13 below lsd, Oct. 28, 1949; lowest 115.90 below lsd, Aug. 30, 1949. Records available: 1943-46, 1949-54. Feb. 4, 100.63; Mar. 17, 96.76; June 2, 91.94; Sept. 8, 93.20; Dec. 28, 98.19.

Bal-Gf 168. Bethlehem Steel Co. Sparrows Point. Lat. 39°12'59", long. 76°28'29". Drilled industrial artesian well in Patapsco formation, diameter 10 to 5 inches, depth 309 feet, screen 283-304. Land-surface datum is 10 feet above msl. Highest water level 48.54 below lsd, June 6, 1950; lowest 100.40 below lsd, June 12, 1953. Records available: 1943-54. Feb. 4, 81.85; Mar. 17, 80.54; Sept. 8, 98.73; Dec. 28, 90.92.

Bal-Gf 169. Bethlehem Steel Co. Sparrows Point. Lat. 39°12'59", long. 76°28'29". Drilled industrial artesian well in Patapsco formation, diameter 10 to 5 inches, depth 224 feet, screen 206-222. Land-surface datum is 10 feet above msl. Highest water level 24.52 below lsd, Feb. 2, 1949; lowest 83.19 below lsd, July 26, 1950. Records available: 1943-54. Feb. 4, 47.78; Mar. 17, 47.63; Sept. 8, 68.80; Dec. 28, 57.27.

Bal-Gf 177. Bethlehem Steel Co. Lat. 39°12'30", long. 76°25'30". Drilled public-supply artesian well in Patuxent formation, diameter 6 inches, depth 709 feet. Land-surface datum is 10 feet above msl. Highest water level 36.89 below lsd, Oct. 28, 1949; lowest 51.44 below lsd, Apr. 8, 1948. Records available: 1943-54. Feb. 4, 46.96; Mar. 17, 45.71; June 2, 41.42; Dec. 28, 44.29.

Bal-Gf 178. Bethlehem Steel Co. Lat. 39°12'30", long. 76°25'30". Drilled public-supply artesian well in Patapsco formation, diameter 8 inches, depth 339 feet. Land-surface datum is 6 feet above msl. Highest water level 13.59 below lsd, Mar. 20, 1948; lowest 30.98 below lsd, June 12, 1953. Records available: 1947-54. Mar. 17, 25.18; Dec. 28, 24.38.

### Calvert County

Cal-Gd 5. U. S. Navy. Occupied by Tidewater Fisheries Commission. Near Solomons. Lat. 38°19'58", long. 76°27'26". Drilled unused artesian well in Nanjemoy formation, diameter 8 inches, depth 248 feet, cased to 233, screen 233-248. Land-surface datum is 10 feet above msl. Highest water level 17.98 below lsd, May 16, 1950; lowest 22.23 below lsd, Sept. 18, 1951. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.00	19.80	18.84	19.00	18.79	19.00	19.60	20.35	20.31	20.46	20.30	20.42
2	20.08	19.51	19.23	18.94	18.75	19.06	19.73	20.39	20.42	20.52	20.09	19.88
3	19.72	19.45	19.14	19.31	18.53	19.02	19.72	20.20	20.17	20.43	20.22	19.80
4	19.85	19.35	19.39	19.28	18.79	18.92	19.65	20.31	20.54	20.30	20.30	19.72
5	19.57	19.50	19.62	19.31	18.71	19.07	19.66	20.39	20.35	20.29	20.48	19.58
6	19.55	19.65	19.63	19.23	18.67	19.08	19.75	20.66	20.53	20.35	20.43	20.00
7	19.97	19.78	19.44	19.39	18.60	19.19	19.56	20.24	20.42	20.65	20.23	20.10
8	20.04	19.79	19.46	19.38	18.40	19.10	19.87	20.21	20.51	20.26	20.10	19.85
9	19.91	19.67	19.46	19.47	18.58	18.95	19.65	20.01	20.47	20.24	20.01	20.00
10	19.70	19.69	19.27	19.26	18.84	18.83	19.68	20.31	20.31	20.23	20.14	20.03
11	19.64	19.50	19.33	19.18	18.97	19.05	19.67	20.31	20.37	20.19	20.24	20.21
12	19.67	19.90	19.18	19.37	19.03	19.02	19.73	20.45	20.17	20.22	20.22	20.18
13	20.14	19.86	19.29	19.42	18.85	19.15	19.85	20.60	20.64	20.19	20.29	19.72
14	20.11	19.61	19.19	19.23	18.57	19.23	20.19	20.56	20.58	20.27	20.22	.....
15	19.76	19.68	19.47	19.14	18.71	19.09	20.20	20.50	20.55	20.05	20.20	.....
16	19.59	19.73	19.83	18.84	18.65	19.11	20.32	20.61	20.31	19.34	20.09	.....
17	19.72	19.62	19.48	18.99	18.96	19.08	20.19	20.85	20.38	19.97	19.91	.....
18	19.84	19.78	19.38	18.94	18.85	19.03	20.07	20.85	20.38	20.04	19.95	.....
19	19.95	19.60	19.26	19.08	18.77	19.22	20.00	20.85	20.10	20.11	19.78	.....
20	20.04	19.50	18.98	19.04	18.60	19.26	20.04	20.85	20.17	20.20	19.55	.....
21	19.99	19.36	19.27	19.05	18.69	19.21	19.88	20.86	20.20	19.94	19.72	19.74
22	19.99	19.45	19.42	19.05	18.85	19.35	20.03	20.71	20.55	19.99	19.95	19.92
23	19.69	19.45	19.28	18.93	18.92	19.30	20.09	20.60	20.77	20.09	20.04	19.80
24	19.57	19.20	19.28	19.04	18.88	19.45	20.09	20.52	20.65	20.31	19.80	19.90
25	19.58	19.07	19.12	18.98	18.82	19.42	20.16	20.45	20.54	20.27	.....	19.97
26	19.73	19.16	19.20	18.85	18.98	19.38	20.15	20.53	20.52	20.12	.....	19.68
27	19.55	19.37	19.29	18.77	18.99	19.33	20.19	20.43	20.43	20.07	.....	19.59
28	20.04	18.97	19.18	18.52	18.86	19.63	20.21	20.20	20.36	20.33	.....	19.59
29	20.13	18.89	18.44	18.90	19.50	20.20	20.30	20.44	19.98	.....	.....	19.54
30	19.36	18.95	18.70	19.13	19.57	20.25	20.30	20.44	20.09	20.48	19.57	.....
31	19.83	18.92	19.11	19.11	19.11	20.25	20.09	20.09	20.09	20.09	19.57	.....

Cal-Gd 6. U. S. Navy. Occupied by Tidewater Fisheries Commission. Near Solomons. Lat. 38°19'58", long. 76°27'08". Drilled unused artesian well in Aquia greensand, diameter 8 to 6 inches, depth 493 feet, cased to 472, screen 469-493. Land-surface datum is 10 feet above msl. Highest water level 25.72 below lsd, May 16, 1950; lowest 34.83 below lsd, Aug. 6, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	Aug.	Day	Jan.	Feb.	Mar.	Apr.	Aug.
1	.....	31.17	29.96	30.12	.....	11	30.95	30.38	30.31	30.18	.....
2	.....	30.83	30.42	30.11	.....	12	30.82	30.92	30.19	30.30	.....
3	.....	30.74	30.33	30.39	.....	13	31.31	30.91	30.29	30.29	.....
4	.....	30.58	30.51	30.42	.....	14	31.31	30.71	30.13	.....	.....
5	.....	30.61	30.71	30.41	.....	15	31.12	30.76	30.54	.....	.....
6	.....	30.15	30.76	30.36	h34.83	16	30.98	30.75	30.86	.....	.....
7	31.20	30.96	30.65	30.28	.....	17	30.64	30.62	30.56	.....	.....
8	31.42	30.94	30.60	30.30	.....	18	31.24	30.75	30.42	.....	.....
9	31.33	30.57	30.55	30.44	.....	19	31.15	30.64	30.25	.....	.....
10	31.05	30.60	30.27	30.25	.....	20	31.20	30.62	29.94	.....	.....

## Cal-Gd 6--Continued.

Day	Jan.	Feb.	Mar.	Apr.	Aug.	Day	Jan.	Feb.	Mar.	Apr.	Aug.
21	31.12	30.51	30.25	.....	.....	27	30.94	30.46	30.31	.....	.....
22	31.37	30.55	30.46	.....	.....	28	31.31	30.12	30.22	.....	.....
23	31.16	30.55	30.31	.....	.....	29	31.37		29.97	.....	.....
24	31.07	30.36	30.31	.....	.....	30	30.87		29.97	.....	.....
25	30.89	30.23	30.18	.....	.....	31	31.07		29.95	.....	.....
26	31.08	30.24	30.13	.....	.....						

h Tape measurement.

## Caroline County

Care-Bc 1. State Roads Commission. Baltimore Corners. Lat. 39°03'27", long. 75°50'46". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 21 feet. Land-surface datum is about 54 feet above msl. Highest water level 0.25 above lsd, Nov. 27, 1951; lowest 4.21 below lsd, Nov. 2, 1954. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.70	May 3	3.04	July 30	3.87	Nov. 2	4.21
Mar. 1	2.42	27	3.26	Sept. 2	4.10	Dec. 8	3.83
Apr. 2	2.91	June 28	3.71	28	4.18	30	2.84

Care-Cd 1. State Roads Commission. West Denton. Lat. 38°55'18", long. 75°49'14". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 10 feet. Land-surface datum is about 40 feet above msl. Highest water level 0.74 below lsd, Apr. 29, 1952; lowest 6.87 below lsd, Aug. 17, 1949. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.35	May 3	1.75	July 29	4.98	Nov. 2	6.47
Mar. 1	1.69	27	2.60	Sept. 2	5.73	Dec. 8	5.64
Apr. 2	2.01	June 28	4.44	28	6.01	30	4.42

Care-Dc 56. Denton Cemetery Association. West Denton. Lat. 38°53'10", long. 75°50'25". Drilled unused artesian well in Choptank formation, diameter 6 inches, depth 137 feet. Land-surface datum is about 14 feet above msl. Highest water level 12.41 below lsd, Feb. 28, 1952; lowest 36.67 below lsd, Sept. 28, 1953. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	29.83	Apr. 2	29.40	June 28	24.37	Sept. 29	29.41
26	30.81	May 3	28.49	July 29	32.34	Nov. 16	28.73
29	32.17	12	30.93	Sept. 2	30.46	Dec. 15	30.46
Feb. 26	33.08	28	27.19				

Care-Fd 4. State Roads Commission. Near Federalsburg. Lat. 38°43'23", long. 75°46'52". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 9 feet. Land-surface datum is about 38 feet above msl. Highest water level 0.35 below lsd, May 3, 1954; lowest 6.49 below lsd, Oct. 29, 1949. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	1.03	May 3	0.35	July 29	3.71	Nov. 2	5.05
Mar. 1	.63	27	1.64	Sept. 7	4.83	Dec. 8	3.80
Apr. 2	.88	June 28	3.75	28	4.27	30	1.93

## Carroll County

Car-Bb 1. Mrs. Joe Elliott. Taneytown. Lat. 39°39'44", long. 77°10'33". Dug unused water-table well in New Oxford formation, depth 31 feet, cribbed with brick. Land-surface datum is 525 feet above msl. Highest water level 1.23 below lsd, May 5, 1948; lowest 7.06 below lsd, Nov. 2, 1953. Records available: 1946-54. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	2.58	Feb. 18	2.46	May 6	2.66	July 13	4.50
Feb. 2	2.70	Mar. 3	1.86	June 7	4.47	Aug. 2	6.57
3	2.67	17	2.36	28	4.18		

Car-Bf 1. Town of Hampstead. Hampstead. Lat. 39°36'40", long. 76°51'00". Drilled unused water-table well in Wissahickon formation, diameter 8 inches, reported depth 400 feet. Land-surface datum is 933 feet above msl. Highest water level 52.30 below lsd, May 13, 1952; lowest 76.03 below lsd, Dec. 14, 1949. Records available: 1946-47, 1949-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.40	71.47	71.47	69.89	68.09	67.91	68.72	70.38	.....	73.16	74.10	74.79
2	71.39	71.47	71.42	69.89	68.02	67.82	68.76	70.43	.....	73.17	74.12	74.81
3	71.39	71.46	71.42	69.72	67.93	67.83	68.80	70.49	.....	73.20	74.14	74.84
4	71.38	71.46	71.39	69.71	67.82	67.82	68.85	70.55	72.10	73.23	74.17	74.85
5	71.38	71.46	71.37	69.70	67.82	67.89	68.87	70.58	72.14	73.27	74.20	74.88

## Car-Bf 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	71.36	71.46	71.27	69.63	67.76	67.92	68.92	70.65	72.19	73.30	74.22	74.91
7	71.35	71.46	71.20	69.52	67.71	67.95	68.95	70.70	72.23	73.38	74.25	74.93
8	71.35	71.46	71.14	69.47	67.58	67.98	69.05	70.75	72.28	73.41	74.28	74.94
9	71.35	71.45	71.08	69.44	67.54	68.01	69.12	70.80	72.31	73.39	74.32	74.98
10	71.35	71.45	70.99	69.44	67.48	.....	69.16	70.84	72.35	73.42	74.34	75.00
11	71.35	71.45	70.94	69.35	67.46	.....	69.21	70.90	72.39	73.46	74.37	75.03
12	71.33	71.49	70.88	69.24	67.45	.....	69.25	70.97	72.44	73.48	74.40	75.05
13	71.35	71.50	70.83	69.22	67.51	.....	69.27	71.00	72.47	73.52	74.43	75.10
14	71.36	71.50	70.72	69.10	67.52	.....	69.34	71.04	72.51	73.55	74.45	75.10
15	71.36	71.50	70.68	69.01	67.52	68.12	69.39	71.08	72.56	73.60	74.47	75.11
16	71.36	71.50	70.66	68.97	67.52	68.20	69.48	71.14	72.60	73.61	74.50	75.13
17	71.37	71.50	70.64	68.76	67.55	68.25	69.52	71.20	72.63	73.61	74.52	75.14
18	71.37	71.50	70.59	68.73	67.59	68.29	69.55	71.22	72.67	73.64	74.54	75.15
19	71.38	71.52	70.54	68.71	67.60	68.30	69.58	71.28	72.70	73.66	74.56	75.18
20	71.38	71.52	70.42	68.69	67.62	68.32	69.66	71.50	72.73	73.69	74.58	75.22
21	71.39	71.52	70.40	68.65	67.67	68.33	69.70	71.55	72.79	73.72	74.59	75.22
22	71.40	71.52	70.38	68.57	67.74	68.35	69.75	71.59	72.81	73.75	74.61	75.22
23	71.41	71.52	70.33	68.47	67.78	68.40	69.82	71.63	72.82	73.78	74.62	75.23
24	71.41	71.52	70.29	68.41	67.79	68.44	69.87	71.66	72.88	73.81	74.64	75.25
25	71.42	71.51	70.26	68.35	67.80	68.45	69.95	71.70	72.91	73.84	74.66	75.25
26	71.42	71.50	70.14	68.28	67.87	68.46	70.02	71.74	72.92	73.88	74.68	75.25
27	71.42	71.47	70.14	68.19	67.89	68.48	70.09	.....	72.97	73.90	74.71	75.29
28	71.44	71.47	70.13	68.05	67.89	68.53	70.15	.....	72.98	73.95	74.72	75.29
29	71.44	.....	70.07	68.06	67.86	68.60	70.23	.....	73.00	74.02	74.75	75.30
30	71.44	.....	69.90	68.09	67.91	68.66	70.30	.....	73.05	74.04	74.78	75.30
31	71.47	.....	69.90	.....	67.92	.....	70.33	.....	.....	74.06	.....	75.30

Car-Dd 2. Board of Education. Winfield. Lat. 39°27'10", long. 77°03'20". Drilled unused water-table well in Wissahickon formation, diameter 6 inches, depth 180 feet. Land-surface datum is 862 feet above msl. Highest water level 61.00 below lsd, May 12, 1954; lowest 66.09 below lsd, Nov. 23, 1954. Records available: 1953-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 16, 1953	62.16	Dec. 29, 1953	63.90	May 12, 1954	61.00	Sept. 29, 1954	65.24
30	63.70	Feb. 3, 1954	64.74	July 16	62.37	Nov. 23	66.09
Nov. 9	64.95	Mar. 2	63.68	Aug. 20	64.32	Dec. 29	66.05
13	64.72	17	62.14				

## Cecil County

Ce-Ac 39. Town of Rising Sun. Lat. 39°42'00", long. 76°03'22". Drilled unused water-table well in weathered Precambrian rock, diameter 6 inches, depth 111 feet. Land-surface datum is about 325 feet above msl. Highest water level 4.30 below lsd, Apr. 19, 1953; lowest 15.50 below lsd, Sept. 10, 1953. Records available: 1953-54.

Jan.	8	7.28	Mar.	5	10.94	Apr.	30	5.91	June	23	9.97
15	6.53	13	7.00	May	7	5.66	July	1	9.88		
22	4.90	19	6.98		14	6.45		9	8.82		
Feb.	2	6.64	26	6.46	21	6.16		16	9.06		
6	7.04	Apr.	2	6.40	28	7.74		Aug.	2	9.81	
12	7.56	8	7.45	June	4	7.67		10	9.49		
19	7.19	15	6.59	11	9.62			20	9.23		
26	6.79	23	7.70								

Ce-Bf 1. Pennsylvania RR. Iron Hill Station. Lat. 39°38'46", long. 75°47'24". Drilled unused well in weathered Precambrian rock, diameter 6 inches, depth 71 feet. Land-surface datum is about 125 feet above msl. Highest water level 5.05 below lsd, June 2, 1953; lowest 9.56 below lsd, Sept. 29, 1954. Records available: 1949-54.

Jan.	31	6.69	May	3	6.64	July	30	9.41	Nov.	2	9.32
Mar.	1	6.45	27	7.58	Sept.	1	9.54	Dec.	3	8.19	
Apr.	1	6.42	June	28	8.64	29	9.56	30	7.12		

Ce-Cf 1. State Roads Commission. Near Elkton. Lat. 39°34'05", long. 75°48'54". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 10 feet. Land-surface datum is about 10 feet above msl. Highest water level 1.42 below lsd, Jan. 28, 1952; lowest 5.70 below lsd, July 30, 1954. Records available: 1949-54.

Feb.	1	3.19	May	3	3.07	July	30	5.70	Nov.	2	3.50
Mar.	1	2.67	27	3.36	Sept.	1	5.01	Dec.	3	3.97	
Apr.	1	2.85	June	28	4.79	29	5.14	30	2.86		

Ce-Ee 2. Dr. Gilfillian. Near Cecilton. Lat. 39°23'40", long. 75°52'15". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 22 feet. Land-surface datum is about 71 feet above msl. Highest water level 1.13 below lsd, May 1, 1952; lowest 11.71 below lsd, Dec. 30, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	10.05	May 3	10.03	July 30	11.57	Nov. 2	13.34
Mar. 1	10.36	27	10.11	Sept. 1	12.19	Dec. 3	13.77
Apr. 1	9.58	June 28	10.90	29	12.73	30	14.21

### Charles County

Ch-Bf 2. Maryland State Police, Barracks "H". Near Mattawoman. Lat. 38°39'06", long. 76°52'50". Dug domestic water-table well in deposits of Pleistocene age, diameter 4½ feet, depth 19 feet. Land-surface datum is 222 feet above msl. Highest water level 11.79 below lsd, Apr. 13, 1949; lowest 16.82 below lsd, Nov. 30, 1954. Records available: 1947-54. Feb. 9, 15.00; May 20, 14.12; July 1, 14.85; Aug. 7, 15.49; Oct. 13, 16.40; Nov. 30, 16.82; Dec. 29, 16.78.

Ch-Cb 7. U. S. Navy. Indian Head. Lat. 38°34'24", long. 77°11'48". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 400 feet. Land-surface datum is 36 feet above msl. Highest water level 57.55 below lsd, Apr. 18, 1952; lowest 64.20 below lsd, Dec. 25, 1954. Records available: 1953-54.

### Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	60.34	59.32	59.75	59.70	59.85	.....	60.31	.....	62.13	63.11	63.91
2	.....	60.16	59.36	59.78	59.73	59.71	59.02	60.48	.....	62.23	63.07	63.83
3	.....	60.04	59.37	59.85	59.70	59.71	59.09	60.45	61.51	62.30	63.18	63.70
4	.....	59.92	59.57	60.01	59.69	59.57	59.13	60.59	61.68	62.27	63.18	63.57
5	.....	59.91	59.72	60.00	59.75	59.73	59.12	60.60	61.68	62.25	63.25	63.56
6	.....	60.00	59.80	60.01	59.70	59.83	59.16	60.81	61.80	62.33	63.30	63.72
7	.....	60.10	59.83	59.96	59.59	59.90	59.15	60.81	61.80	62.60	63.19	63.85
8	.....	60.10	59.81	60.02	59.46	59.89	59.22	60.81	61.85	62.57	63.05	63.74
9	.....	60.54	59.80	60.16	59.59	59.86	59.22	60.79	61.85	62.45	62.95	63.67
10	.....	60.51	59.69	60.10	59.88	59.61	59.12	60.95	61.85	62.50	62.97	63.79
11	.....	60.32	59.73	60.00	59.91	59.72	59.07	61.02	61.98	62.52	62.97	63.98
12	.....	60.66	59.65	60.25	59.96	59.75	59.07	61.14	61.99	62.45	62.94	64.08
13	.....	60.66	59.67	60.25	60.00	59.81	59.02	61.29	61.94	62.48	63.07	64.03
14	.....	60.50	59.77	60.19	59.91	59.89	59.10	61.31	61.88	62.54	63.03	63.75
15	.....	60.40	60.13	60.14	59.67	59.89	59.22	61.25	61.84	62.47	62.97	63.58
16	.....	60.42	60.33	60.03	59.69	59.83	59.37	61.26	61.71	62.06	62.95	63.87
17	.....	60.32	60.33	59.90	59.70	59.82	59.35	61.32	61.70	62.44	62.86	63.95
18	.....	60.41	60.13	60.00	59.81	59.70	59.26	61.37	61.72	62.55	62.76	63.82
19	.....	60.32	60.00	60.08	59.79	59.83	59.18	61.32	61.65	62.74	62.68	63.68
20	60.34	60.20	59.81	60.10	59.71	59.98	59.27	61.34	61.72	62.90	62.54	63.90
21	60.29	60.03	59.93	60.04	59.80	59.97	59.20	61.42	61.73	62.90	62.60	64.07
22	60.33	59.86	60.13	60.06	59.82	59.96	59.25	61.42	61.96	62.78	62.78	64.15
23	.....	59.95	60.06	60.03	59.89	60.04	59.32	61.35	62.13	62.90	62.85	64.10
24	60.30	59.81	60.01	60.14	59.85	60.10	59.37	61.39	62.17	63.12	62.82	64.10
25	60.12	59.61	59.90	60.13	59.78	60.20	59.43	61.39	62.15	63.21	62.67	64.20
26	60.21	59.51	59.90	60.00	59.80	60.21	59.44	61.47	62.09	63.17	62.73	64.15
27	60.18	59.64	60.01	60.00	59.83	60.22	59.50	61.52	62.15	63.02	62.78	64.07
28	60.63	59.56	60.01	59.74	59.82	.....	59.58	.....	62.12	63.15	62.72	64.04
29	60.63	.....	59.91	59.72	59.76	.....	59.68	.....	62.18	63.06	62.92	63.98
30	60.32	.....	59.80	59.61	59.89	.....	59.97	.....	62.10	62.96	63.70	63.83
31	60.32	.....	59.81	.....	59.91	.....	60.16	.....	.....	63.02	.....	63.89

Ch-Dc 2. Bernward C. Juhle. Near Ironsides. Lat. 38°27'24", long. 77°09'28". Dug farm water-table well in deposits of Pleistocene age, diameter 4 feet, depth 39 feet. Land-surface datum is 120 feet above msl. Highest water level 14.97 below lsd, Feb. 12, 1949; lowest 33.40 below lsd, July 12, 1951. Records available: 1948-54. Jan. 14, 19.12; Feb. 13, 19.09; Mar. 14, 19.03.

Ch-Ee 16. J. B. Bowling. Wayside. Lat. 38°21'02", long. 76°56'00". Dug domestic water-table well in deposits of Pleistocene age, diameter 42 inches, depth 23 feet. Land-surface datum is 40 feet above msl. Highest water level 11.74 below lsd, May 1, 1952; lowest 20.65 below lsd, Dec. 20, 1949. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	14.47	May 20	15.42	Aug. 7	16.14	Nov. 29	16.10
Apr. 6	14.95	June 30	15.92	Oct. 13	16.44	Dec. 29	16.00



Dorchester County

Dor-Bd 2. Carleton Slagle. Hambrook Estate. Near Cambridge. Lat. 38°35'30", long. 76°05'27". Drilled unused artesian well in Piney Point formation, diameter 6 inches, depth 380 feet. Land-surface datum is about 3 feet above msl. Highest water level 56.80 below lsd, May 12, 1952; lowest 79.34 below lsd, Nov. 1, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	65.49	Feb. 26	63.16	June 30	70.50	Nov. 1	79.34
8	66.04	Apr. 1	60.57	July 29	71.73	Dec. 10	71.75
14	64.48	May 10	63.78	Sept. 7	78.45	29	70.64
29	65.22	29	65.14	30	78.22		

Dor-Bg 3. Pennsylvania RR. Near Hubbard. Lat. 38°36'40", long. 75°53'43". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 21 feet. Land-surface datum is about 40 feet above msl. Highest water level 5.79 below lsd, Apr. 29, 1952; lowest 10.24 below lsd, Sept. 7, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	7.58	May 10	6.90	July 29	8.52	Nov. 1	9.74
29	7.14	29	7.34	Sept. 7	10.24	Dec. 10	9.80
Feb. 26	7.19	June 30	8.05	29	9.41	29	9.50
Apr. 1	7.08						

Dor-Bh 4. State Roads Commission. Finchville. Lat. 38°37'56", long. 75°46'13". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 18 feet. Land-surface datum is about 42 feet above msl. Highest water level 1.23 below lsd, Apr. 29, 1952; lowest 6.52 below lsd, Nov. 2, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.23	May 3	2.28	July 29	4.38	Nov. 2	6.52
Mar. 1	1.67	27	3.00	Sept. 7	5.38	Dec. 8	6.51
Apr. 2	2.47	June 28	3.88	28	5.83	30	4.75

Dor-Cd 16. State Roads Commission. Church Creek. Lat. 38°30'05", long. 76°09'08". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 22 feet. Land-surface datum is about 5 feet above msl. Highest water level 0.14 below lsd, Apr. 1, 1954; lowest 5.19 below lsd, Oct. 2, 1953. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	1.78	May 10	0.16	July 30	2.65	Nov. 1	2.96
29	1.04	29	.39	Sept. 7	3.11	Dec. 10	2.97
Feb. 26	.52	June 30	2.00	30	3.18	29	2.55
Apr. 1	.14						

Dor-Ce 22. State of Maryland. Eastern Shore State Hospital. Near Cambridge. Lat. 38°33'43", long. 76°02'53". Drilled unused artesian well in Piney Point formation, diameter 10 inches, depth 370 feet. Land-surface datum is 12 feet above msl. Highest water level 69.64 below lsd, Apr. 28, 1952; lowest 107.73 below lsd, Sept. 13, 1953. Records available: 1952-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	80.08	Feb. 26	79.48	June 30	92.35	Nov. 1	94.22
8	82.24	Apr. 1	76.57	July 29	92.96	16	89.06
14	81.01	May 9	79.83	Sept. 2	99.28	Dec. 10	87.23
29	82.58	29	86.66	30	102.38	15	87.42

Dor-Cg 1. State Roads Commission. Salem. Lat. 38°30'55", long. 75°54'24". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 12 feet. Land-surface datum is about 18 feet above msl. Highest water level 0.16 below lsd, Jan. 30, 1952; lowest 4.64 below lsd, Oct. 31, 1952. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	1.74	May 10	1.00	July 30	2.26	Nov. 1	3.77
29	1.34	29	1.17	Sept. 3	3.01	Dec. 10	4.11
Feb. 26	1.02	June 30	1.78	30	3.36	29	4.07
Apr. 1	.83						

Dor-Dd 6. J. F. Linthicum. Near Church Creek. Lat. 38°29'47", long. 76°09'41". Drilled domestic artesian well in Piney Point formation, diameter 1½ inches, depth 375 feet. Land-surface datum is about 4 feet above msl. Highest water level 40.22 below lsd, June 2, 1952; lowest 50.17 below lsd, Nov. 1, 1954. Records available: 1952-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	43.52	May 10	44.66	July 30	46.90	Nov. 1	50.17
29	46.42	29	44.90	Sept. 7	48.80	Dec. 10	49.30
Feb. 26	45.53	June 30	45.90	30	49.45	29	48.92
Apr. 1	45.87						

Dor-Ed 1. R. L. Simmons. Andrews. Lat. 38°21'27", long. 76°06'42". Drilled unused artesian well in Piney Point formation, diameter 1½ inches, depth 411 feet. Land-surface datum is about 3 feet above msl. Highest water level 19.43 below lsd, Oct. 20, 1949; lowest 24.45 below lsd, Dec. 29, 1954. Records available: 1949, 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	23.02	Apr. 1	22.98	July 30	24.33	Nov. 1	23.84
29	22.88	May 10	22.82	Sept. 7	23.93	Dec. 10	23.90
Feb. 26	23.29	29	22.72	30	23.80	29	24.45

Dor-Fd 1. State Roads Commission. Crapo. Lat. 38°19'00", long. 76°06'59". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 17 feet. Land-surface datum is about 3 feet above msl. Highest water level 0.21 below lsd, Apr. 1, 1953; lowest 6.98 below lsd, Sept. 7, 1954. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	0.81	May 10	0.97	July 30	5.86	Nov. 1	1.42
29	.29	29	1.52	Sept. 7	6.98	Dec. 10	1.09
Feb. 26	.57	June 30	3.90	30	5.70	29	.73
Apr. 1	.66						

### Frederick County

Fr-Bd 1. Town of Thurmont. On High Run. Lat. 39°36'28", long. 77°25'42". Drilled unused water-table well in Harpers phyllite, diameter 6 inches, reported depth 1,000 feet. Land-surface datum is 630 feet above msl. Highest water level 7.61 below lsd, Jan. 7, 1949; lowest 32.62 below lsd, Nov. 13, 1952. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	16.82	May 6	11.37	Aug. 3	22.64	Nov. 5	18.45
3	16.92	June 10	14.69	31	17.53	30	18.28
Mar. 8	14.03	28	22.62	Sept. 29	19.11	Dec. 29	17.51
Apr. 8	13.55	July 14	18.85	Oct. 5	19.21		

Fr-Cg 1. A. B. Potts. Johnsville. Lat. 39°31'58", long. 77°13'56". Dug domestic water-table well in Ijamsville phyllite, diameter 36 inches, depth 43 feet, cribbed with stone. Land-surface datum is 586 feet above msl. Highest water level 32.40 below lsd, Jan. 10, 1949; lowest 41.22 below lsd, Sept. 15, 1953. Records available: 1946-54. Feb. 2, 38.69; June 28, 38.82; Oct. 14, 40.95; Nov. 23, 40.19; Dec. 29, 39.29.

Fr-Ee 1. Mrs. Roy Putman. Near Frederick. Lat. 39°24'10", long. 77°22'42". Dug domestic water-table well in Frederick limestone, diameter 43 inches, depth 58 feet, cribbed with stone. Land-surface datum is 330 feet above msl. Highest water level 42.10 below lsd, Mar. 6, 1949; lowest 54.98 below lsd, Nov. 22, Dec. 29, 1947. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	50.88	Apr. 8	52.00	July 13	52.23	Oct. 8	53.50
Feb. 2	51.18	May 11	51.93	Aug. 4	52.56	Nov. 4	53.93
2	51.55	June 8	52.16	Sept. 2	53.02	23	54.24
3	51.23	28	52.00	27	53.35	Dec. 2	54.31

Fr-Fc 1. Montgomery Orrison. Near Point of Rocks. Lat. 39°16'40", long. 77°31'18". Dug domestic water-table well in New Oxford formation, diameter 4½ feet, depth 28 feet, cribbed with stone. Land-surface datum is 240 feet above msl. Highest water level 5.50 below lsd, Jan. 13, 1953; lowest 25.57 below lsd, Dec. 7, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	17.40	May 5	7.78	Aug. 4	18.41	Nov. 12	24.36
Feb. 3	15.40	June 9	12.71	Sept. 3	20.26	Dec. 3	24.97
Mar. 9	13.17	28	14.96	27	22.29	7	25.57
Apr. 12	14.34	July 12	16.08				

Fr-Fd 1. Thomas & Co., Inc. Adamstown. Lat. 39°25'00", long. 77°18'45". Drilled unused semiartesian well in Frederick limestone, diameter 8 to 6 inches, reported depth 1,000 feet. Land-surface datum is 306 feet above msl. Highest water level 18.09 below lsd, Dec. 23, 1954; lowest 25.92 below lsd, Nov. 19, 1954. Records available: 1954. Nov. 17, 19.73; Nov. 18, 19.76; Nov. 19, 25.92; Nov. 20, 19.77; Nov. 21, 19.71; Dec. 23, 18.09.

### Garrett County

Gar-Ag 1. Town of Frostburg. In Savage River valley. Lat. 39°40'20", long. 78°58'59". Drilled unused water-table well in Greenbrier limestone or Pocono sandstone, diameter 8 inches, depth 30 feet. Land-surface datum is 2,560 feet above msl. Highest water level 5.71 below lsd, Jan. 19, 1950; lowest 8.64 below lsd, Oct. 9, 1951. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	8.20	Apr. 6	7.45	July 8	6.31	Oct. 5	7.92
Feb. 9	7.60	May 11	7.54	Aug. 4	8.13	Nov. 8	7.36
25	7.89	June 8	7.77	Sept. 3	7.83	Dec. 17	7.05
Mar. 9	7.52	29	7.80	29	7.87	22	7.07

Gar-Bc 1. E. H. Ault. Accident. Lat. 39°37'49", long. 79°19'05". Dug domestic water-table well in Catskill formation, diameter 36 inches, depth 20 feet, cribbed with stone. Land-surface datum is 2,415 feet above msl. Highest water level 8.69 below lsd, Mar. 8, 1954; lowest 19.65 below lsd, Dec. 9, 1953. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	16.80	Apr. 6	12.70	July 7	14.08	Oct. 5	14.36
Feb. 8	14.70	May 10	14.87	Aug. 3	15.70	Nov. 9	13.02
25	13.15	June 7	15.70	Sept. 3	10.84	Dec. 8	12.02
Mar. 8	8.69	29	12.42	29	13.01	21	9.73

Gar-Eb 23. Mrs. Arthur Nally (Tenant: Ray Porter). Oakland. Lat. 39°24'03", long. 77°24'07". Dug unused water-table well in Catskill formation, depth 37 feet. Land-surface datum is 2,560 feet above msl. Highest water level 18.62 below lsd, Apr. 29, 1952; lowest dry, Nov. 14, 1952, Oct.-Dec. 1953. Records available: 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	19.20	June 28	26.94	Sept. 2	22.54	Nov. 9	23.73
Feb. 25	25.98	July 6	29.68	29	27.17	Dec. 8	24.30
June 9	32.40	Aug. 3	32.12	Oct. 5	29.12	21	21.94

### Harford County

Har-Bd 31. R. Lamar McCann. Dublin. Lat. 39°39'00", long. 76°16'00". Dug unused water-table well in gabbro, diameter about 7 feet, depth 26 feet. Land-surface datum is 450 feet above msl. Highest water level 8.92 below lsd, May 11, 1954; lowest 17.97 below lsd, Nov. 20, 1954. Records available: 1954.

Daily lowest water level from recorder graph\*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	14.68	.....	16.87	17.64	17.81
2	.....	.....	.....	16.91	17.64	17.71
3	.....	.....	15.93	16.94	17.64	17.80
4	.....	.....	15.97	16.97	17.66	17.81
5	.....	.....	16.01	17.00	17.68	17.84
6	.....	.....	16.05	17.03	17.69	17.90
7	.....	.....	16.08	17.07	17.71	17.92
8	.....	.....	16.12	17.09	17.73	17.94
9	.....	.....	16.16	17.12	17.76	17.95
10	13.12	.....	16.19	17.15	17.78	17.84
11	13.18	.....	16.23	17.17	17.79	17.60
12	13.25	.....	16.27	17.20	17.81	17.48
13	13.32	.....	16.31	17.23	17.83	17.41
14	13.39	.....	16.35	17.26	17.85	17.38
15	13.48	.....	16.39	17.28	17.87	17.33
16	13.54	.....	16.42	17.29	17.90	17.27
17	13.60	.....	16.46	17.31	17.92	17.23
18	13.67	.....	16.49	17.34	17.94	17.20
19	13.74	.....	16.51	17.36	17.96	17.07
20	13.80	.....	16.54	17.39	17.97	16.99
21	13.92	.....	16.56	17.41	17.94	16.88
22	13.98	.....	16.58	17.45	17.86	16.83
23	14.03	.....	16.61	17.47	17.73	16.81
24	14.11	.....	16.65	17.50	17.68	16.86
25	14.17	.....	16.68	17.52	17.73	16.89
26	14.23	.....	16.71	17.55	17.78	16.91
27	14.30	.....	16.75	17.58	17.82	16.92
28	14.39	.....	16.78	17.61	17.87	16.95
29	14.46	.....	16.81	17.62	17.87	16.93
30	14.52	.....	16.84	17.63	17.83	16.36
31	14.60	.....	.....	17.64	.....	16.06

\* No record for January, February, March, April, May, and June.

Har-Cc 8. Maryland Waterworks Co. Bynum. Lat. 39°33'59", long. 76°21'57". Drilled unused water-table well in Precambrian rock (gabbro), depth 50 feet. Land-surface datum is 410 feet above msl. Highest water level 1.11 below lsd, Jan. 13, 1953; lowest 8.57 below lsd, Sept. 10, 1947. Records available: 1946-54. Mar. 11, 1.47; Apr. 27, 1.49. Measurement discontinued.

Har-Ed 24. U. S. Army. Army Chemical Center, Edgewood. Lat. 39°23'50", long. 76°16'21". Drilled unused public-supply artesian well in Patuxent formation, diameter 18 to 10 inches, depth 149 feet, cased to 135, screen 120-135. Land-surface datum is 12.8 feet above msl. Highest water level 14.43 below lsd, Mar. 14, 1951; lowest 35.75 below lsd, Oct. 7, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.28	34.58	33.77	34.46	34.29	34.13	34.36	34.60	34.56	34.75	34.77	35.42
2	34.57	34.10	34.21	34.38	34.34	34.15	34.41	34.73	34.72	34.75	34.32	34.78
3	34.06	34.04	34.11	34.91	34.22	34.32	34.54	34.22	34.26	34.67	34.55	34.55
4	34.54	33.93	34.45	35.03	34.45	34.03	34.42	34.45	34.98	34.66	34.75	34.38
5	34.01	34.04	34.62	34.70	34.45	34.37	34.42	34.35	34.90	34.57	35.14	34.65

## Har-Ed 24--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	33.90	34.07	34.66	34.67	33.99	34.41	34.55	34.86	34.88	35.15	35.09	35.56
7	34.47	34.57	34.52	34.62	34.11	34.50	34.55	34.66	34.88	35.75	34.63	35.50
8	34.58	34.40	34.51	34.56	33.93	34.50	34.63	34.45	34.71	34.60	34.57	34.63
9	34.30	34.21	34.45	35.04	34.14	34.39	34.67	34.31	34.79	34.50	34.82	34.62
10	34.39	34.17	34.24	34.51	34.45	33.92	34.30	34.58	34.60	34.55	35.11	34.93
11	34.60	34.20	34.09	34.40	34.45	34.14	34.32	34.57	34.87	34.58	34.80	35.22
12	34.16	34.95	34.20	34.89	34.50	34.29	34.28	34.65	34.41	34.41	34.87	35.17
13	34.65	34.76	34.29	34.90	34.56	34.15	34.34	34.89	34.82	34.54	35.16	34.82
14	34.56	34.23	34.30	34.23	34.26	34.42	34.32	34.91	34.59	34.60	34.62	34.78
15	34.22	34.49	34.82	34.34	34.17	34.35	34.42	34.47	34.64	34.39	35.01	34.16
16	34.15	34.43	35.21	34.22	34.11	34.40	34.74	34.68	34.22	34.16	34.70	35.09
17	34.19	34.22	34.75	34.28	34.20	34.43	34.52	34.84	34.66	34.22	34.58	35.19
18	34.38	34.61	34.58	34.32	34.42	34.18	34.27	34.66	34.51	34.20	34.56	34.70
19	34.41	34.40	34.34	34.44	34.17	34.32	34.35	34.50	34.35	34.69	34.36	34.41
20	34.47	34.38	33.82	34.29	34.23	34.43	34.47	34.65	34.36	34.84	34.10	35.03
21	34.28	34.23	34.42	34.41	34.37	34.22	34.35	34.87	34.42	34.49	34.46	34.96
22	34.82	34.27	34.73	34.46	34.16	34.17	34.42	34.87	34.41	34.30	34.74	35.22
23	34.80	34.55	34.36	34.25	34.37	34.42	34.52	34.68	34.91	34.32	34.79	34.90
24	34.22	34.00	34.57	34.58	34.28	34.50	34.59	34.69	34.89	34.71	34.52	34.99
25	34.21	33.99	34.25	34.52	34.20	34.50	34.49	34.52	34.74	34.81	34.37	35.27
26	34.46	34.85	34.54	34.46	34.44	34.41	34.56	34.65	34.65	34.41	34.50	34.95
27	34.03	34.50	34.76	34.46	34.44	34.22	34.60	34.80	34.59	34.26	34.64	34.98
28	34.92	33.94	34.51	34.11	34.45	34.70	34.51	34.29	34.44	34.80	34.57	34.91
29	34.92		34.17	34.11	34.00	34.68	34.48	34.57	34.54	33.98	34.62	34.88
30	33.70		34.55	34.18	34.37	34.35	34.40	34.45	34.42	34.61	35.47	34.65
31	34.70		34.62		34.56		34.50	34.23		34.44		34.91

## Howard County

How-Bd 1. S. D. Slack. Slacks Corner. Lat. 39°18'10", long. 76°57'56". Dug domestic and stock water-table well in Wissahickon formation, diameter 5 to 4 feet, depth 48 feet, cribbed with stone. Land-surface datum is 630 feet above msl. Highest water level 30.28 below lsd, July 5, 1952; lowest 45.94 below lsd, Feb. 16, 1948. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	38.35	Apr. 20	38.79	July 30	39.08	Oct. 30	40.40
29	38.43	May 5	38.45	Aug. 3	38.93	Nov. 23	42.42
Feb. 3	38.27	June 4	38.37	Sept. 15	39.76	Dec. 6	41.53
Mar. 9	38.70	21	38.15	29	40.53	30	42.87
Apr. 1	38.70	July 6	38.73	Oct. 4	40.81		

## Kent County

Ken-Dc 1. Catherine Overbeck. Near Deep Point. Lat. 39°06'56", long. 76°06'52". Drilled domestic artesian well in Aquia greensand, diameter 6 inches, depth 87 feet. Land-surface datum is about 10 feet above msl. Highest water level 7.23 below lsd, Apr. 29, 1952; lowest 10.54 below lsd, Nov. 27, 1951. Records available: 1947-48, 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	9.60	May 3	8.45	Sept. 2	10.12	Dec. 9	10.10
Mar. 1	8.12	27	9.00	29	9.95	30	9.67
Apr. 1	9.25	July 30	9.93	Nov. 2	9.47		

## Montgomery County

Mont-Be 1. Mount Lebanon Church. Near Damascus. Lat. 39°16'46", long. 77°10'05". Drilled unused water-table well in Ijamsville phyllite, diameter 6 inches, depth 58 feet. Land-surface datum is 710 feet above msl. Highest water level 24.10 below lsd, Mar. 17, 1949; lowest 46.68 below lsd, Dec. 30, 1954. Records available: 1949-54. Feb. 3, 45.30; Apr. 20, 44.52; June 21, 39.38; July 30, 40.60; Sept. 29, 43.79; Nov. 23, 46.21; Dec. 30, 46.68.

Mont-Cc 14. Shirley Hayes. Barnesville. Lat. 39°13'14", long. 77°22'42". Dug domestic water-table well in Ijamsville phyllite, diameter 60 to 24 inches, depth 46 feet, cribbed with rock. Land-surface datum is 550 feet above msl. Highest water level 29.39 below lsd, Apr. 20, 1953; lowest 45.35 below lsd, Nov. 23, 1954. Records available: 1952-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 12, 1952	40.65	June 12, 1953	31.15	Dec. 29, 1953	38.20	July 30, 1954	39.70
Feb. 11, 1953	31.50	July 20	36.69	Feb. 3, 1954	36.86	Sept. 29	42.90
20	31.45	Sept. 4	39.50	Apr. 20	36.20	Nov. 23	45.35
23	29.47	23	40.40	June 21	36.73	Dec. 30	43.49
Apr. 20	29.39	Nov. 13	42.57				

Mont-Cf 1. Village of Mount Zion. Mount Zion. Lat. 39°11'00", long. 77°06'09". Dug public-supply water-table well in Sykesville granite, diameter 36 inches, depth 26 feet, cribbed with stone. Land-surface datum is 513 feet above msl. Highest water level 6.20 below lsd, Mar. 22, 1953; lowest 20.20 below lsd, Nov. 23, 1954. Records available: 1949-54. Feb. 3, 11.31; Apr. 20, 10.30; June 21, 12.44; July 30, 15.88; Sept. 29, 19.06; Nov. 23, 20.20; Dec. 30, 19.09.

Mont-Dc 1. J. D. Byrd. Dawsonville. Lat. 39°07'43", long. 77°21'00". Drilled domestic water-table well in New Oxford formation, diameter 6 inches, reported depth 110 feet. Land-surface datum is 340 feet above msl. Highest water level 2.17 below lsd, Feb. 6, 1952; lowest 31.16 below lsd, Sept. 29, 1954. Records available: 1949-54. Feb. 3, 4.60; Apr. 20, 8.62; June 21, 14.35; July 30, 18.44; Sept. 29, 31.16; Nov. 23, 21.72; Dec. 30, 15.58.

Mont-De 1. Washington Suburban Sanitary Commission. Gaithersburg. Lat. 39°08'31", long. 77°12'18". Drilled unused water-table well in Wissahickon formation, diameter 6 inches, depth 81 feet. Land-surface datum is 460 feet above msl. Highest water level 5.50 below lsd, June 1, 1953; lowest 57.00 below lsd, Aug. 25, 1948. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	9.90	May 3	7.50	Aug. 2	24.10	Nov. 1	15.50
Mar. 1	9.90	June 1	8.20	Sept. 1	15.25	Dec. 30	11.93
Apr. 1	8.50	July 1	12.90	Oct. 5	16.98		

Mont-Ef 8. City of Rockville. Lat. 39°04'39", long. 77°08'16". Drilled unused water-table well in Peters Creek quartzite, diameter 8 inches, depth 99 feet. Land-surface datum is 425 feet above msl. Highest water level 24.03 below lsd, July 29, 1949; lowest 28.47 below lsd, Sept. 26, 1949. Records available: 1949. Measurement discontinued.

Mont-Ef 9. City of Rockville. Lat. 39°04'50", long. 77°07'48". Drilled unused water-table well in Peters Creek quartzite, diameter 8 inches, depth 134 feet. Land-surface datum is 370 feet above msl. Highest water level 21.54 below lsd, Apr. 12, 1947; lowest 37.38 below lsd, Oct. 24, 1946. Records available: 1946-47. Measurement discontinued.

Mont-Eg 1. Walter M. Brown. Near Colesville. Lat. 39°04'00", long. 77°01'31". Dug unused water-table well in Wissahickon formation, depth 20 feet, lined with loose stones. Land-surface datum is 280 feet above msl. Highest water level 8.96 below lsd, Apr. 28, 1952; lowest 18.41 below lsd, Oct. 6, 1932. Records available: 1932-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	15.08	15.05	14.70	14.30	15.13	16.29	.....	17.47	17.88	17.58	.....
2	.....	15.04	14.88	14.72	14.26	15.16	16.33	.....	17.53	17.88	17.55	17.18
3	15.58	15.03	14.86	14.73	14.22	15.21	16.35	17.34	17.54	17.89	17.52	17.17
4	15.61	15.02	14.82	14.79	14.17	15.26	16.39	17.40	17.55	17.90	17.49	17.16
5	15.60	15.02	14.81	14.80	14.20	15.32	16.43	17.41	17.57	17.91	17.48	17.16
6	15.61	15.03	14.80	14.79	14.22	15.37	16.46	17.38	17.58	17.91	17.46	17.16
7	15.63	15.07	14.78	14.80	14.23	15.41	16.50	17.42	17.60	17.91	17.44	17.15
8	15.67	15.05	14.77	14.82	14.24	15.44	16.53	17.44	17.61	17.92	17.43	17.14
9	15.68	15.03	14.74	14.89	14.27	15.49	16.57	17.45	17.63	17.92	17.41	17.12
10	15.68	15.06	14.72	14.92	14.31	15.52	16.60	17.45	17.64	17.92	17.40	17.11
11	15.69	15.10	14.74	14.91	14.34	15.55	16.64	17.46	17.66	17.92	17.39	17.11
12	15.71	15.16	14.76	14.93	14.39	15.60	16.67	17.47	17.67	17.92	17.37	17.11
13	15.77	15.20	14.76	14.96	14.44	15.64	16.70	17.49	17.69	17.93	17.36	17.11
14	15.78	15.19	14.53	14.96	14.47	15.67	16.73	17.50	17.71	17.93	17.35	16.98
15	15.78	15.20	14.51	14.99	14.49	15.70	16.66	17.50	17.73	17.93	.....	16.78
16	15.64	15.21	14.58	14.98	14.52	15.74	16.76	17.50	17.74	17.90	.....	16.85
17	15.56	15.22	14.58	14.87	14.57	15.79	16.81	17.51	17.76	17.88	.....	16.89
18	15.61	15.27	14.58	14.89	14.62	15.82	16.84	17.53	17.76	17.87	.....	16.89
19	15.61	15.31	14.55	14.95	14.64	15.84	16.86	17.53	17.78	17.86	.....	16.89
20	15.58	15.32	14.49	14.99	14.64	15.87	16.89	17.50	17.78	17.84	.....	16.89
21	15.47	15.28	14.54	15.01	14.70	15.90	16.91	17.51	.....	17.83	.....	16.88
22	15.47	15.27	14.58	15.02	14.75	15.94	16.94	17.51	.....	17.82	.....	16.86
23	15.46	15.30	14.59	15.00	14.80	15.98	16.96	17.51	17.96	17.81	.....	16.85
24	15.44	15.29	14.62	14.94	14.83	16.03	17.00	17.51	17.92	17.80	.....	16.84
25	15.37	15.28	14.60	14.93	14.87	16.07	.....	17.51	17.89	17.79	.....	16.84
26	15.21	15.28	14.59	14.83	14.93	16.09	.....	17.51	17.88	17.77	.....	16.84
27	15.13	15.34	14.65	14.71	14.96	16.12	.....	17.52	17.88	17.75	.....	16.83
28	15.14	15.34	14.66	14.32	14.98	16.18	.....	17.53	17.88	17.73	.....	16.82
29	15.15		14.66	14.34	15.01	16.22	.....	17.53	17.88	17.70	.....	16.75
30	15.10		14.67	14.33	15.08	16.26	.....	17.53	17.88	17.64	.....	16.45
31	15.10		14.70		15.12		.....	17.51		17.59		16.52

Prince Georges County

PG-Ad 8. Francis Gosnell. 605½ Main St., Laurel. Lat. 39°06'21", long. 76°51'10". Dug unused water-table well in Patuxent formation, diameter 4 feet, depth 35 feet. Land-surface datum is 179 feet above msl. Highest water level 11.56 below lsd, Apr. 17, 1953; lowest 19.26 below lsd, Oct. 13, 1954. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	13.70	May 18	13.24	Aug. 7	17.41	Nov. 29	17.53
Apr. 6	13.66	July 1	15.41	Oct. 13	19.26	Dec. 29	15.82

PG-Bd 17. Beltsville Research Center. Dairy Experiment Station. Lat. 39°01'55", long. 76°53'31". Drilled unused well in Patuxent formation, diameter 8 inches, depth 233 feet. Land-surface datum is 124 feet above msl. Highest water level 20.60 below lsd, May 26, 1952; lowest 24.04 below lsd, Aug. 7, 1954. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	21.71	May 18	21.89	Aug. 7	24.04	Nov. 24	23.80
Apr. 6	21.89	July 1	23.05	Oct. 13	23.41	Dec. 28	22.73

PG-Cc 3. Southern Oxygen Co., Inc. Bladensburg. Lat. 38°55'41", long. 76°56'08". Drilled unused well in Patuxent formation, diameter 8 inches, depth 162 feet. Land-surface datum is 18 feet above msl. Highest water level 7.89 below lsd, Apr. 17, 1953; lowest 10.53 below lsd, Oct. 13, 1953, Apr. 6, 1954. Records available: 1948-54. Feb. 9, 9.96; Apr. 6, 10.53; May 18, 9.57; July 1, 10.23. Measurement discontinued.

PG-Df 2. Dr. Bowie. Near Leeland. Lat. 38°51'54", long. 76°43'16". Dug unused well in Nanjemoy formation, diameter 4 feet, depth 82 feet. Land-surface datum is 145 feet above msl. Highest water level 72.25 below lsd, Oct. 19, 1949, Apr. 16, 1953; lowest 75.96 below lsd, Nov. 19, 1951. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	73.46	May 20	73.29	Aug. 6	73.36	Nov. 29	73.77
Apr. 6	73.84	June 30	73.34	Oct. 12	73.72	Dec. 28	74.25

Queen Annes County

QA-Be 1. State Roads Commission. Near Kingstown. Lat. 39°11'54", long. 76°02'20". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 21 feet. Land-surface datum is about 19 feet above msl. Highest water level 1.87 above lsd, Mar. 31, 1953; lowest 3.19 below lsd, Oct. 26, 1950. Records available: 1949-50, 1952-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	+0.82	May 3	+0.59	July 30	-0.18	Nov. 2	-1.24
Mar. 1	+.86	27	+.80	Sept. 2	-.59	Dec. 9	-1.50
Apr. 1	+.76	June 30	+.34	29	-1.00	30	-1.45

QA-Eb 12. Stevensville Fire Department. Stevensville. Lat. 38°58'47", long. 76°23'59". Drilled unused artesian well in Aquia greensand, diameter 2½ inches, depth 194 feet. Land-surface datum is about 15 feet above msl. Highest water level 0.54 below lsd, Mar. 1, 1954; lowest 4.89 below lsd, Nov. 2, 1954. Records available: 1953-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.92	May 3	2.57	July 30	3.18	Nov. 2	4.89
Mar. 1	.54	27	2.66	Sept. 2	3.20	Dec. 9	4.39
Apr. 1	2.88	June 30	3.12	29	3.20	30	4.27

QA-Ec 1. State Roads Commission. Near Grasonville. Lat. 38°57'49", long. 76°10'56". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 21 feet. Land-surface datum is about 20 feet above msl. Highest water level 0.12 below lsd, Apr. 29, 1952; lowest 7.98 below lsd, Oct. 27, 1949. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	0.77	May 3	0.69	July 30	6.12	Nov. 2	7.69
Mar. 1	.70	27	2.57	Sept. 2	6.80	Dec. 9	7.83
Apr. 1	.85	June 30	5.06	29	7.30	30	7.46

St. Marys County

St. M. -Df 26. Thomas K. Clark. Near California. Lat. 38°17'33", long. 76°29'39". Dug unused water-table well in deposits of Pleistocene age, diameter 48 to 36 inches, depth 58 feet, lined with brick and cement. Land-surface datum is 110 feet above msl. Highest water level 50.57 below lsd, June 6, 1949; lowest 55.82 below lsd, Oct. 12, 1954. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	54.29	May 18	54.82	Aug. 7	55.16	Nov. 29	55.56
Apr. 6	54.65	June 30	54.90	Oct. 12	55.82	Dec. 28	55.76

St. M.-Ef 27. J. A. Coad. Portobello. Lat.  $38^{\circ}10'37''$ , long.  $76^{\circ}27'10''$ . Drilled unused artesian well in Aquia greensand, diameter  $1\frac{1}{2}$  inches, depth 438 feet. Land-surface datum is 1 foot above msl. Highest water level 7.09 below lsd, May 3, 1950; lowest 14.21 below lsd, Oct. 13, 1953. Records available: 1949-54. Feb. 8, 12.54; Apr. 6, 12.78; June 30, 12.94; Aug. 7, 13.43; Oct. 13, 13.76; Nov. 29, 9.05; Dec. 28, 8.60.

St. M.-Eg 3. Mrs. J. W. Elms. Near St. James. Lat.  $38^{\circ}12'02''$ , long.  $76^{\circ}22'34''$ . Drilled domestic artesian well in sediments of Eocene age, diameter  $1\frac{1}{2}$  inches, depth 339 feet, cased to 210. Land-surface datum is 15 feet above msl. Highest water level 12.80 below lsd, Mar. 25, 1947; lowest 16.61 below lsd, Oct. 13, 1954. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	16.10	May 19	15.91	Aug. 7	16.49	Nov. 29	15.97
Apr. 6	16.20	June 30	16.28	Oct. 13	16.61	Dec. 28	16.52

### Somerset County

Som-Be 1. State Roads Commission. Near Princess Anne. Lat.  $38^{\circ}12'47''$ , long.  $75^{\circ}43'26''$ . Driven observation water-table well in sand of Pleistocene age, diameter  $1\frac{1}{4}$  inches, depth 23 feet. Land-surface datum is about 18 feet above msl. Highest water level 0.20 below lsd, Feb. 26, 1953; lowest 4.52 below lsd, Oct. 30, 1952. Records available: 1949-54.

Jan. 5	2.05	May 7	1.01	July 31	4.12	Nov. 4	4.30
28	.24	June 2	2.35	Sept. 7	4.36	Dec. 11	3.64
Feb. 25	.44	July 1	3.40	Oct. 1	4.06	28	2.73
Mar. 30	.70						

Som-Be 42. E. M. Smith. Princess Anne. Lat.  $38^{\circ}11'52''$ , long.  $75^{\circ}41'25''$ . Drilled unused artesian well in sand of Miocene age, diameter 2 inches, depth 184 feet. Land-surface datum is about 17 feet above msl. Highest water level 6.15 below lsd, May 1, 1953; lowest 25.06 below lsd, July 31, 1954. Records available: 1952-54.

Jan. 1	18.36	May 7	19.47	July 31	25.06	Nov. 4	21.70
28	10.60	June 2	21.51	Sept. 7	21.93	Dec. 11	22.25
Feb. 25	8.86	July 1	24.90	Oct. 1	23.77	28	20.80
Mar. 30	17.36						

Som-Cf 2. State Roads Commission. Near Costen. Lat.  $38^{\circ}06'16''$ , long.  $75^{\circ}38'11''$ . Driven observation water-table well in sand of Pleistocene age, diameter  $1\frac{1}{2}$  inches, depth 15 feet. Land-surface datum is about 20 feet above msl. Highest water level 0.56 below lsd, Apr. 28, 1952; lowest 6.12 below lsd, Sept. 7, 1954. Records available: 1949-54.

Jan. 5	4.00	May 7	1.58	July 30	5.74	Nov. 4	5.77
28	1.07	June 2	2.97	Sept. 7	6.12	Dec. 11	5.08
Feb. 25	1.11	July 1	5.00	Oct. 1	5.68	28	3.34
Mar. 30	1.20						

### Talbot County

Tal-Be 44. State Roads Commission. Near Longwoods. Lat.  $38^{\circ}51'08''$ , long.  $76^{\circ}03'45''$ . Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 35 feet. Land-surface datum is about 20 feet above msl. Highest water level 5.73 below lsd, Apr. 1, 1954; lowest 8.30 below lsd, Nov. 2, 1954. Records available: 1954.

Feb. 1	6.15	May 3	5.77	July 30	7.26	Nov. 2	8.30
Mar. 1	6.01	27	5.80	Sept. 3	7.77	Dec. 9	7.96
Apr. 1	5.73	June 30	6.57	29	8.09	30	7.77

Tal-De 1. State Roads Commission. Near Hambleton. Lat.  $38^{\circ}41'22''$ , long.  $76^{\circ}03'43''$ . Driven observation water-table well in sand of Pleistocene age, diameter  $1\frac{1}{2}$  inches, depth 17 feet. Land-surface datum is about 48 feet above msl. Highest water level 0.13 below lsd, Apr. 29, 1952; lowest 7.83 below lsd, Dec. 9, 1954. Records available: 1949-54.

Feb. 1	2.71	May 3	2.21	July 29	5.89	Nov. 2	7.45
Mar. 1	1.66	27	3.80	Sept. 2	6.55	Dec. 9	7.83
Apr. 1	2.22	June 30	5.19	29	6.99	30	7.72

Tal-Ed 6. Rogers Firth. Near Trappe. Lat.  $38^{\circ}38'49''$ , long.  $76^{\circ}06'34''$ . Drilled unused artesian well in Piney Point formation, diameter  $1\frac{1}{2}$  inches, depth 327 feet. Land-surface datum is about 10 feet above msl. Highest water level 33.22 below lsd, Apr. 29, 1952; lowest 47.92 below lsd, Sept. 28, 1954. Records available: 1952-54.

Feb. 1	42.87	May 3	40.08	July 29	41.97	Nov. 2	45.06
Mar. 1	40.21	27	40.45	Sept. 3	43.75	Dec. 10	45.35
Apr. 1	40.10	June 30	42.49	29	47.92	30	47.60

Washington County

Wa-Ac 1. Susan Creager. Hancock. Lat. 39°41'59", long. 78°10'31". Drilled unused well in Romney shale, diameter 4 inches, depth 86 feet. Land-surface datum is 450 feet above msl. Highest water level 43.50 below lsd, Jan. 3, 1947; lowest 55.83 below lsd, Nov. 19, 1953. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	53.51	Apr. 29	52.83	July 30	54.44	Nov. 4	52.73
25	52.92	June 10	53.79	Sept. 9	54.05	30	45.97
Mar. 1	52.24	28	54.03	29	54.31	Dec. 21	48.47
30	52.54	July 6	54.32	29	54.35		

Wa-Be 2. State of Maryland. Fort Frederick State Park. Lat. 39°36'40", long. 78°00'20". Dug unused water-table well in Romney shale, diameter 42 inches, depth 43 feet, cribbed with stone. Land-surface datum is 480 feet above msl. Highest water level 18.24 below lsd, Apr. 1, 1953; lowest 35.86 below lsd, Nov. 1, 1954. Records available: 1950-54.

Jan. 6	35.62	Mar. 4	33.70	June 1	32.85	Sept. 18	35.80
18	35.71	16	33.73	16	33.54	29	35.80
Feb. 2	35.58	Apr. 1	32.17	28	33.84	Nov. 1	35.86
19	35.64	19	31.96	July 4	34.15	Dec. 16	33.87
25	35.45	May 3	32.55	Aug. 16	35.29	21	34.26

Wa-Bh 3. Garland Groh. Near Hagerstown. Lat. 39°39'00", long. 77°46'31". Dug and drilled domestic and farm water-table well in Stones River or Beekmantown limestone, depth 218 feet. Land-surface datum is 545 feet above msl. Highest water level 18.28 below lsd, Dec. 7, 1950; lowest 40.75 below lsd, Nov. 13, 1952. Records available: 1946-54.

Feb. 25	39.84	June 28	39.62	Aug. 31	38.88	Dec. 1	39.00
May 10	38.95	July 14	39.13	Nov. 4	39.54	23	23.62
June 10	38.63	Aug. 5	38.96				

Wa-Dh 1. John Murphy. Sharpsburg. Lat. 39°27'23", long. 77°45'08". Dug domestic water-table well in Conococheague limestone, diameter 36 inches, depth 29 feet, cribbed with stone. Land-surface datum is 440 feet above msl. Highest water level 17.78 below lsd, Feb. 7, 1951; lowest 27.72 below lsd, Dec. 29, 1954. Records available: 1946-54.

Jan. 18	25.50	May 11	25.45	Aug. 5	26.27	Nov. 11	25.65
Feb. 25	18.66	June 9	25.47	Sept. 1	25.40	Dec. 2	25.42
Mar. 9	25.31	28	24.79	26	25.80	29	27.72
Apr. 13	25.42						

Wicomico County

Wi-Bd 33. State Roads Commission. Near Hebron. Lat. 38°25'07", long. 75°44'07". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 13 feet. Land-surface datum is about 23 feet above msl. Highest water level 3.84 below lsd, Feb. 1, 1952; lowest 6.96 below lsd, Aug. 3, 1951. Records available: 1950-54.

Jan. 4	5.36	May 10	4.43	July 29	6.10	Nov. 1	6.38
29	4.23	29	4.83	Sept. 7	6.50	Dec. 10	5.85
Feb. 26	4.51	June 30	5.70	30	6.23	29	5.09
Apr. 1	4.64						

Wi-Ce 13. City of Salisbury. On south bank of South Prong of Wicomico River, 600 feet east of tidewater dam. Lat. 38°21'50", long. 75°35'22". Drilled unused water-table well in sand of Pleistocene age, diameter 16 to 10 inches, depth 65 feet. Land-surface datum is about 10 feet above msl. Highest water level 1.07 below lsd, Aug. 5, 1948; lowest 10.72 below lsd, Aug. 30, 1947. Records available: 1947-54.

Jan. 8	4.18	Apr. 23	4.04	Aug. 20	7.04	Nov. 1	4.27
14	4.27	May 1	4.70	27	7.09	8	4.85
26	4.87	7	4.20	Sept. 7	4.72	15	4.38
Feb. 2	3.59	June 4	5.54	14	4.87	22	5.06
25	5.04	18	5.28	22	4.27	29	3.44
Mar. 5	3.98	July 1	6.68	30	5.55	Dec. 7	4.00
12	3.82	23	6.47	Oct. 11	4.37	13	5.37
24	4.82	31	7.38	18	5.33	21	5.04
Apr. 8	4.50	Aug. 6	6.88	27	3.73	27	4.92
15	5.40	12	7.19				

Wi-Ce 72. State of Maryland. Pine Bluff State Hospital. Near Salisbury. Lat. 38°20'38", long. 75°37'32". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 44 feet. Land-surface datum is about 16 feet above msl. Highest water level 20.74 below lsd, June 2, 1952; lowest 22.85 below lsd, Aug. 6, 1949. Records available: 1948-54.



Wi-Ce 72--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	22.41	May 7	21.63	July 31	22.55	Nov. 4	22.42
28	22.22	June 2	21.80	Sept. 7	22.46	Dec. 11	22.60
Feb. 25	22.07	July 1	22.30	Oct. 1	22.38	28	22.23
Mar. 30	22.00						

Wi-Ce 105. Salisbury Ice Co. Near intersection of Brown and Naylor Sts., Salisbury. Lat. 38°22'30", long. 75°35'20". Driven unused water-table well in sand of Pleistocene age, diameter 1½ inches, depth 62 feet. Land-surface datum is about 40 feet above msl. Highest water level 27.24 below lsd, May 7, 1953; lowest 30.87 below lsd, Nov. 30, 1951. Records available: 1951-54.

Tape measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.55	30.60	30.36	29.87	29.74	29.50	29.89	30.17	.....	.....	29.74	.....
2	30.56	30.56	30.20	29.87	29.72	29.49	29.91	30.17	.....	.....	.....	.....
3	30.56	30.55	30.06	29.84	29.69	29.47	29.93	30.19	.....	.....	.....	.....
4	30.57	30.56	29.97	29.87	29.70	29.48	29.95	.....	.....	29.44	.....	.....
5	30.57	30.56	29.92	29.83	29.67	29.47	29.97	.....	.....	.....	.....	.....
6	30.57	30.56	29.83	29.81	29.67	29.54	29.94	.....	.....	.....	.....	.....
7	30.60	30.58	29.78	29.81	29.71	29.51	29.97	.....	.....	.....	.....	.....
8	30.61	30.54	29.71	29.89	29.70	29.52	30.05	.....	30.21	.....	.....	.....
9	30.60	30.51	29.82	29.83	.....	29.54	30.08	.....	.....	.....	.....	.....
10	30.59	30.53	29.88	29.81	29.69	29.56	30.08	.....	.....	.....	.....	.....
11	30.58	30.53	29.84	29.80	29.66	29.56	30.10	.....	.....	.....	.....	30.34
12	30.58	30.54	29.99	29.78	29.67	29.61	30.10	.....	.....	.....	.....	.....
13	30.61	30.56	30.01	29.79	29.67	29.62	30.11	.....	.....	.....	.....	.....
14	30.60	.....	29.97	29.78	29.76	29.64	30.11	.....	.....	.....	.....	.....
15	30.58	30.51	30.01	29.78	29.63	29.67	30.13	.....	.....	.....	.....	.....
16	30.56	30.50	30.02	29.78	.....	29.80	30.15	.....	.....	.....	.....	.....
17	30.60	30.48	30.02	29.74	29.61	29.73	30.16	.....	.....	.....	.....	.....
18	30.62	30.50	30.01	29.79	29.59	29.76	30.16	.....	.....	.....	.....	.....
19	30.61	30.49	30.00	29.78	29.58	29.74	30.15	.....	.....	.....	.....	.....
20	30.60	30.48	29.95	29.80	29.57	.....	30.16	.....	.....	.....	.....	.....
21	30.59	30.47	29.97	29.80	29.56	29.74	30.17	.....	.....	.....	.....	.....
22	30.60	30.43	29.97	29.80	29.55	29.78	30.17	.....	.....	.....	.....	.....
23	30.58	30.44	29.96	29.80	29.56	29.76	30.24	.....	.....	.....	.....	.....
24	30.62	30.43	29.95	29.78	29.55	29.79	30.19	.....	.....	.....	.....	.....
25	30.59	30.41	29.93	29.78	29.53	29.81	30.20	.....	.....	.....	.....	.....
26	30.58	30.40	29.93	29.76	29.54	29.81	30.14	.....	.....	.....	.....	.....
27	30.58	30.42	29.92	29.76	29.53	29.81	30.16	.....	.....	.....	.....	.....
28	30.59	30.40	.....	29.74	29.51	29.81	30.17	.....	.....	.....	.....	.....
29	30.61	.....	29.87	29.78	29.51	29.87	.....	.....	.....	.....	.....	.....
30	30.58	.....	29.86	29.77	29.53	29.89	30.04	.....	.....	.....	.....	.....
31	30.60	.....	29.87	.....	29.52	.....	30.20	.....	.....	.....	.....	.....

Wi-Cf 3. Salisbury Airport. Near Salisbury. Lat. 38°20'40", long. 75°31'15". Drilled unused water-table well in sand of Pleistocene age, diameter 16 inches, depth 109 feet. Land-surface datum is about 45 feet above msl. Highest water level 2.83 below lsd, Jan. 29, 1952; lowest 13.55 below lsd, Sept. 18, 1947. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	7.99	Mar. 24	6.46	July 26	8.65	Sept. 13	6.73
15	7.99	May 1	7.35	Aug. 1	8.83	Oct. 1	8.13
26	5.88	June 29	10.21	6	8.95	Nov. 1	8.67
Feb. 2	6.28	July 23	8.55	12	9.20	Dec. 4	8.00
25	6.95						

Wi-Cg 20. State Roads Commission. Between Parsonsburg and Pittsville. Lat. 38°23'33", long. 75°26'45". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 25 feet. Land-surface datum is about 60 feet above msl. Highest water level 3.84 below lsd, Jan. 31, 1950; lowest 7.51 below lsd, July 31, 1952. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	5.08	May 7	4.44	July 31	7.39	Nov. 4	6.00
28	4.41	June 2	4.64	Sept. 7	7.27	Dec. 11	5.12
Feb. 25	4.71	July 1	6.40	Oct. 1	6.11	28	4.80
Mar. 30	4.68						

Worcester County

Wor-Bg 1. State Roads Commission. Near Herring Creek. Lat. 38°20'30", long. 75°06'21". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 14 feet. Land-surface datum is about 10 feet above msl. Highest water level 2.85 below lsd, June 2, 1952; lowest 6.47 below lsd, Aug. 16, 1949, Sept. 7, 1954. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.84	May 7	3.69	July 31	6.03	Nov. 4	4.62
28	3.08	June 2	4.25	Sept. 7	6.47	Dec. 11	3.66
Feb. 25	3.19	July 1	5.53	Oct. 1	5.99	28	3.72
Mar. 30	3.63						

Wor-Dd 9. State Roads Commission. Snow Hill. Lat. 38°11'20", long. 75°22'45". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 20 feet. Land-surface datum is about 20 feet above msl. Highest water level 9.88 below lsd, Mar. 31, 1952; lowest 12.16 below lsd, Dec. 31, 1949. Records available: 1949-54.

Jan. 5	11.58	May 7	10.80	July 31	11.71	Nov. 4	11.93
28	11.27	June 2	11.07	Sept. 7	11.99	Dec. 11	12.10
Feb. 25	11.20	July 1	11.50	Oct. 1	12.00	28	11.80
Mar. 30	11.05						

Wor-Fb 2. Pocomoke City. Lat. 38°04'08", long. 75°34'00". Drilled unused artesian well in sand of Miocene age, diameter 16 to 10 inches, depth 130 feet. Land-surface datum is 20 feet above msl. Highest water level 24.32 below lsd, Jan. 5, 1954; lowest 30.92 below lsd, Sept. 7, 1954. Records available: 1954.

Jan. 5	24.32	May 7	26.20	July 31	c45.13	Nov. 4	29.22
28	c44.49	June 2	28.90	Sept. 7	30.92	Dec. 11	27.37
Feb. 25	24.70	July 1	c49.70	Oct. 1	c41.10	28	27.35
Mar. 30	c43.50						

c Nearby well being pumped.

## MISSISSIPPI

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By J. W. Lang and E. H. Boswell

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### Scope of Water-Level Program

Ground-water studies in Mississippi were resumed in July 1953 in cooperation with the State Geological Survey. A previous cooperative program begun in 1938 was suspended in 1947. The State Survey continued the observation-well program from 1948 to 1953. A summary of the water levels and artesian pressures, measured by both the Federal and State Surveys before 1953, is given in State Bulletin 77, *Water Levels and Artesian Pressures in Observation Wells in Mississippi, 1938-1952*. The last annual water-level report for Mississippi was included in *Water-Supply Paper 1097 (1947)*. The present report includes water levels for the period 1948-54. In the 1954 observation-well program, 55 wells were maintained and 305 individual measurements made. All major aquifers in the State are represented. Recording gages were in operation on 8 of the wells for at least a part of the year. Figure 33 shows the location of observation wells whose records are included in this report. Seasonal water-level measurements for special studies made in 300 wells in northeastern and northwestern Mississippi are not included in this report.

### Precipitation

Precipitation in 1954 averaged 39.77 inches, 13.70 inches below normal. The year was the driest since 1899. May, with 5.72 inches, was the wettest month; August, with 1.43 inches, was the driest. The greatest departure from normal was in the northern half of the State, where severe drought conditions existed. In 1953, although the average precipitation was 56.86 inches (April, May, and December were excessively wet), the summer and fall deficiency was 7.20 inches. In 1952, precipitation averaged only 41.18 inches; a severe drought continued from June through December. The largest volume of recharge to the ground-water reservoirs is supplied by winter and spring rainfall. Intermittent heavy local rains commonly fall in July, August, and September as a result of moisture-laden air currents flowing inland off the Gulf of Mexico. When these summer rains are torrential, although they contribute substantial ground-water recharge, a large percent of the water runs off in surface streams. In the Alluvial Plain, recharge is reflected in the water-table fluctuations within a few hours to a few days after falling. In the deeper artesian aquifers in the Meridian sand member of the Tallahatta formation and in sands of the Wilcox formation, the response to rainfall is of a slower seasonal nature.

### Interpretation of Water-Level Fluctuations

Mississippi is within the Coastal Plain province, except a small area in the northeastern corner of the State. The Coastal Plain formations--unconsolidated clay, chalk, marl, sand, and gravel--furnish most of the municipal, industrial, and about 65 percent of the irrigation water supplies in the State, the remainder being derived from surface streams and reservoirs. The most extensive increase recently in the rate of use of ground water has been from the permeable sands and gravels of Quaternary age, in the Alluvial Plain (Yazoo Delta), a lens-shaped area of about 6,600 square miles in the northwestern part of the State. These sands and gravels have an average thickness of about 140 feet. Here, the number of wells used for irrigation increased from about 30 in 1950 to 450 by the end of 1954, the greatest concentration being in Bolivar and Washington Counties, where there is a large rice acreage. Of the 300 wells used for rice irrigation, the yield per well ranged from about 1,500 to 4,500 gpm (gallons per minute), the average being about 2,000 gpm. Most of the 150 wells used for irrigation of pasture and row crops had yields ranging from about 400 to 1,500 gpm. In 1954, the total use of ground water from the alluvium was estimated to be 330,000 acre-feet. Because irrigation is seasonal, the water levels stand highest before pumping begins in the spring, then decline during the summer. After the end of pumping in the fall, the water levels begin to rise and tend to stand near the previous spring levels by the beginning of the next irrigation season. The water levels also respond to seasonal precipitation, normally highest in winter and early spring and lowest during summer and fall. The regional water table declined from 1.5 to 2 feet in the Yazoo Delta as a result of the drought during 1954. The change in water level in Yazoo County well B1, in an unpumped area, is representative of the regional decline caused by the drought. The water level in Bolivar County well O10, in the center of a heavily pumped locality, declined about 5 feet during 1954, about 2 feet of which was probably due to the drought and 3 feet to local pumping. Further recovery in this well has been recorded since the December 1954 measurement. Widespread supplemental irrigation of pasture and various row crops increased in parts of the State in 1954 because of the drought. There was also a large increase in the industrial use of ground water in the State. Plants at

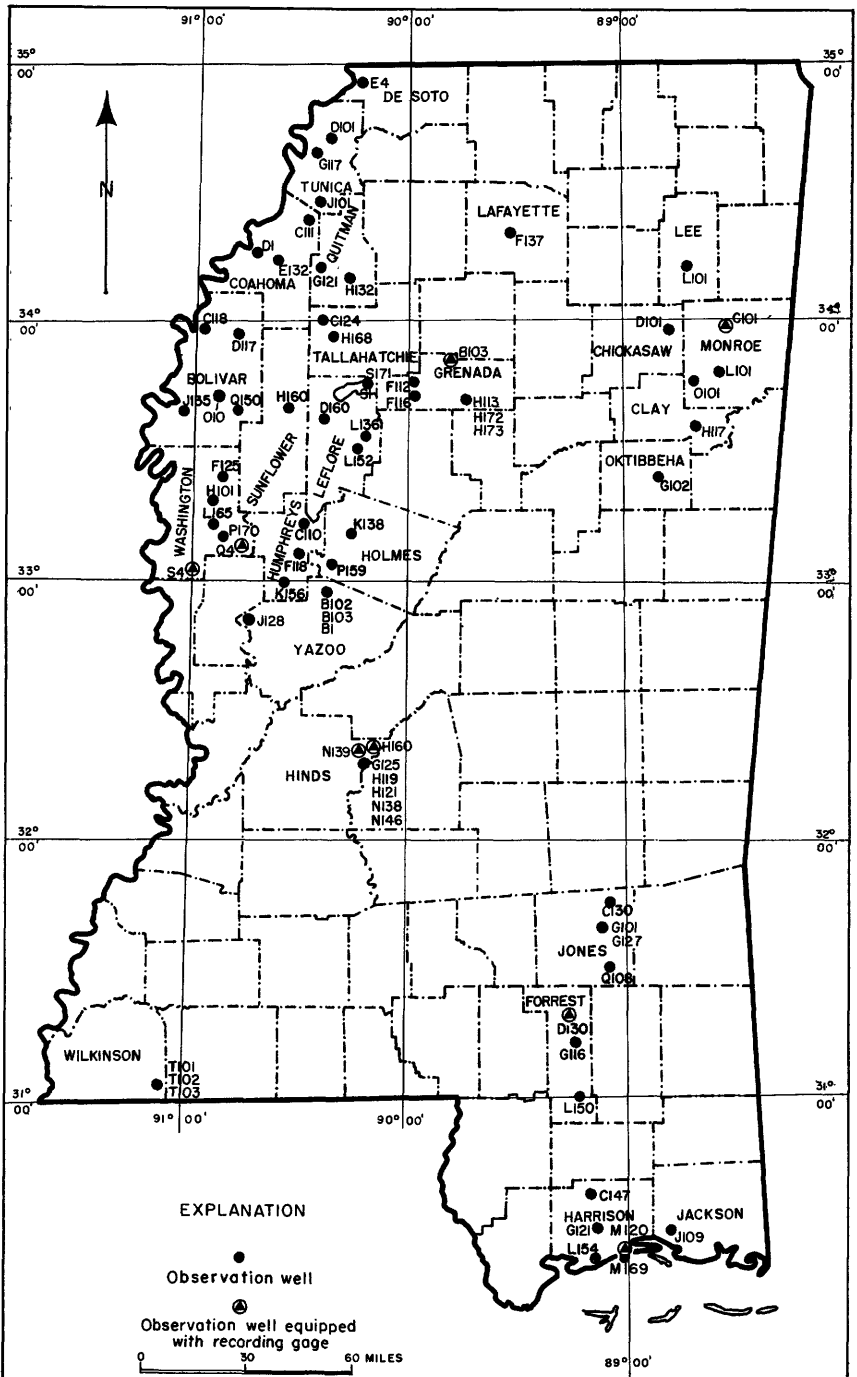


Figure 33. --Location of observation wells in Mississippi, 1954.

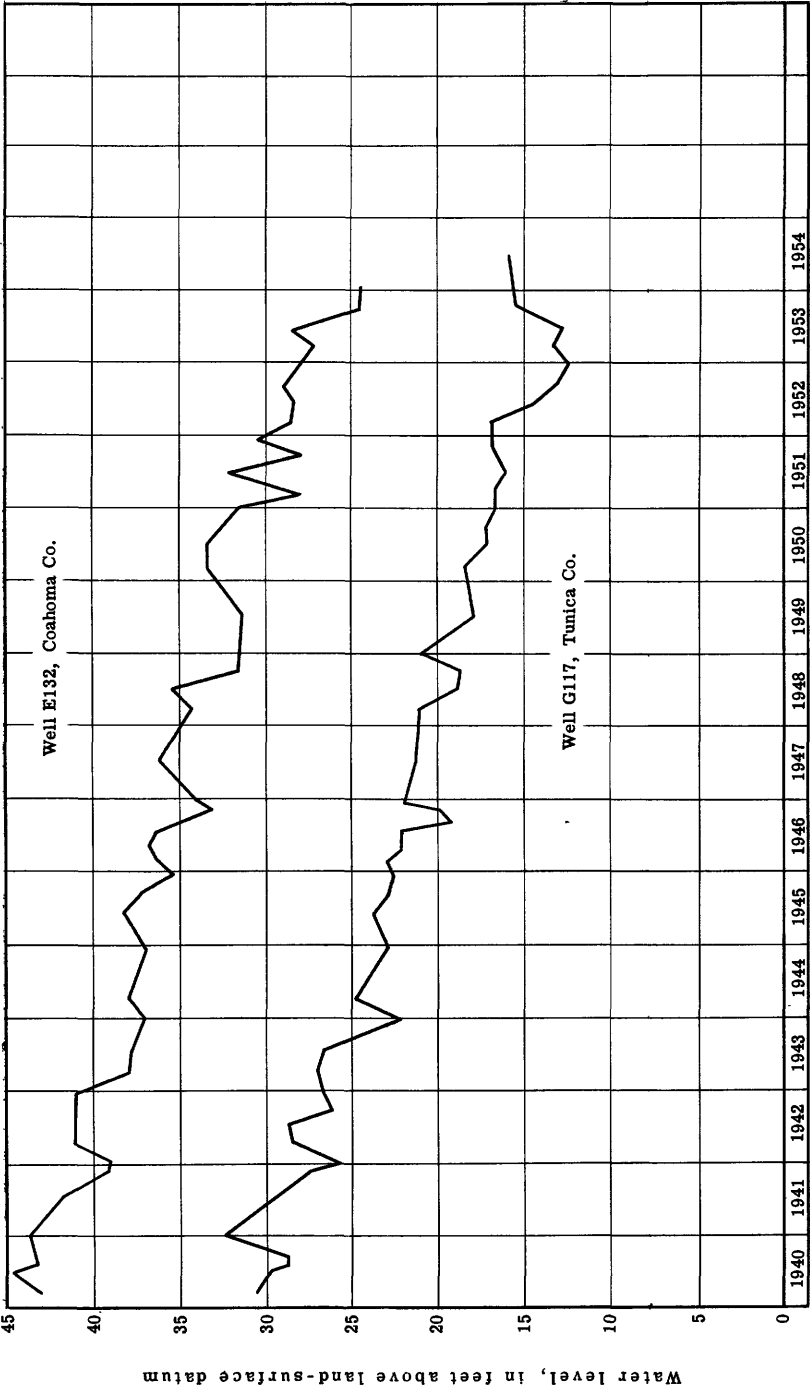


Figure 34. --Water levels in Coahoma County well E132 and Tunica County well G117, Miss., 1940-54.

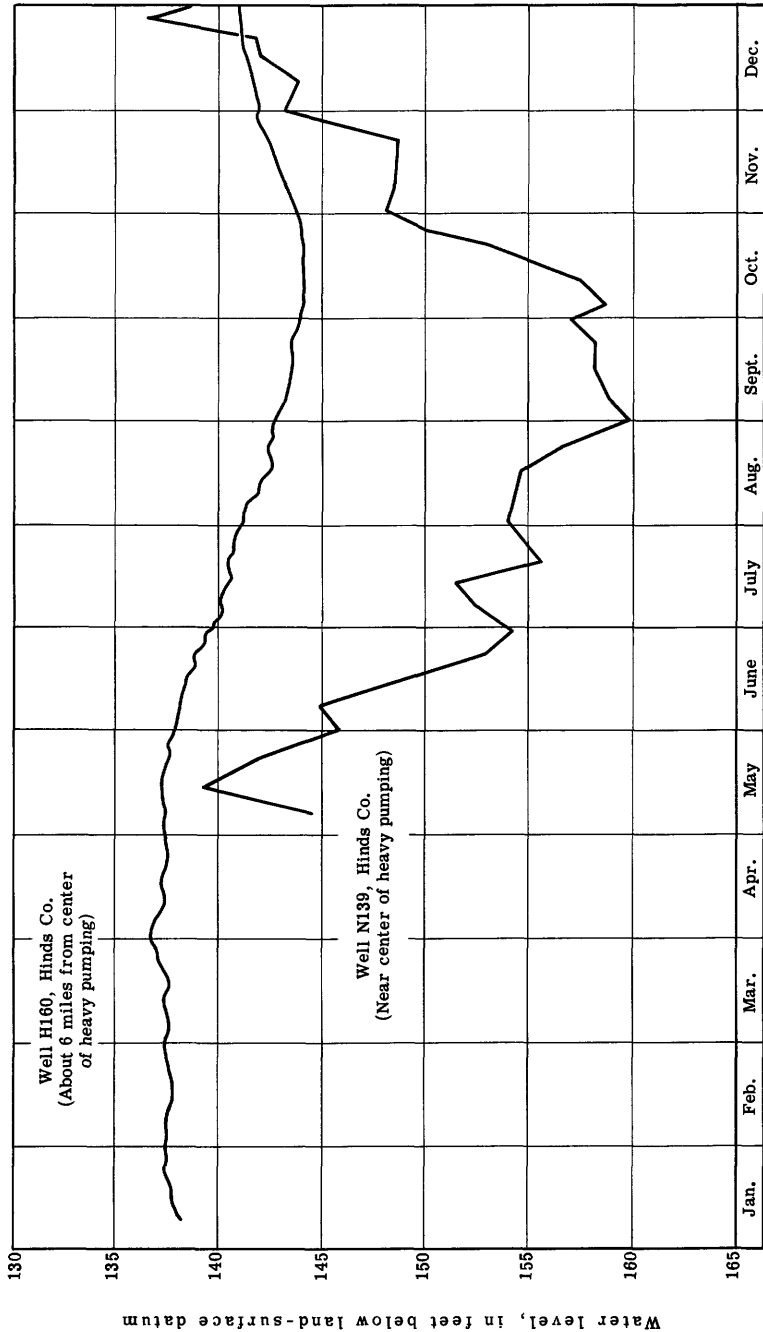


Figure 35. --Water levels in Hinds County wells H160 and N139, Miss., 1954.

Clarksdale, Greenwood, Greenville, Yazoo City, Natchez, and Laurel pumped large volumes of water for cooling, processing, and other uses. Artesian wells have been developed in several aquifers ranging in age from Cretaceous in the northeastern part of the State to Quaternary along the Gulf Coast. The information obtained thus far on the water levels in the artesian aquifers indicates a general net decline, the cumulative average decline amounting to about 18 feet since 1939. The decline in water levels is the result of the increase in the number of wells drilled and the waste of water from uncontrolled flowing artesian wells. Figure 34 shows the general downward trends of water levels since 1940 in Coahoma County well E132 and Tunica County well G117, which penetrate sands of the Wilcox formation. The water levels declined from 45 to 25 feet above land surface in well E132 and from 32 to 15 feet in well G117. On the other hand, a static water level of 142 feet above land surface was measured in Yazoo County well B103, a supply well in the Meridian sand member of the Tallahatta formation drilled in 1954 for the town of Eden. This may be the highest water level recorded in the entire Gulf Coastal Plain.

In the Jackson area, there has been considerable increase in the use of water from wells in the Sparta sand during the past few years. Figure 35 shows the fluctuations of water levels in 1954 in Hinds County well M160, about 6 miles from the center of heavy pumping, and N139, near the center of heavy pumping, in the Sparta sand. Much of the heavy pumping in the area is for heat-exchange purposes. Many of the wells are shut down during the late fall, winter, and early spring. Records indicate that during the past 30 years the water level in the Sparta sand has declined an average of about 60 feet at Jackson.

Increasing withdrawals of ground-water supplies in the Gulf Coastal area resulted in record-low water levels in 1952, 1953, and 1954. A maximum drop of 19 feet was recorded between April 1948 and September 1952 in Harrison County well M169. Harrison County well M120 in Biloxi, which had a water level of 44 feet above land surface in 1903, has not flowed at land surface since 1952 and in June 1954 reached a low of 30.85 feet below land-surface datum. Both wells reflect local pumpage from the Graham Ferry formation amounting to a combined average in excess of 4 mgd (million gallons per day) for public, military, and industrial purposes. The recovery of about 16 feet in Jones County well G101 as shown by April measurements in 1948 and 1954 is the result of curtailment of pumping for industrial use.

#### Well-Numbering System

In previous water-level reports, observation wells in Mississippi have been listed alphabetically by counties and numerically within each county. In this report, the system of a letter to identify the grid and consecutive well numbers in each grid is used. For each county, the grids are designated alphabetically beginning with A in the upper left corner. The grid lines follow the township lines except for areas smaller than half a township in size. These are included with an adjoining township.

#### Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

##### Bolivar County

C118. Formerly 18. Town of Gunnison. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, T. 24 N., R. 7 W. Drilled public-supply artesian well in Meridian sand member, diameter 6 inches, depth 1,738 feet. Land-surface datum is 153.96 feet above msl. Highest water level 28.9 above lsd, May 29, 1939; lowest 15.8 above lsd, July 21, 1949. Records available: 1939-49. Apr. 18, 19.48, +19.1; July 30, +19.30; Jan. 1, 19.49, +18.90; July 21, +15.8. Measurement discontinued.

D117. Formerly 13. Town of Shelby. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 24 N., R. 6 W. Drilled public-supply artesian well in Meridian sand member, diameter 4 inches, reported depth 1,650 feet. Land-surface datum is 153.58 feet above msl. Highest water level 20.6 above lsd, June 1, 1939; lowest 4.5 above lsd, Apr. 14, 1954. Records available: 1940-46, 1948, 1950-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18, 1948	+12.2	Apr. 1, 1951	+18.6	June 26, 1952	+14.0	July 1, 1953	+11.7
July 30	18.0	July 2	20.0	Sept. 29	16.3	Oct. 16	7.5
Sept. 29, 1950	18.0	Oct. 3	18.3	Jan. 3, 1953	15.3	Feb. 3, 1954	5.7
Jan. 24, 1951	18.5	Mar. 29, 1952	16.8	Apr. 2	10.0	Apr. 14	4.5

J135. Formerly 35. Town of Beulah. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 27, T. 22 N., R. 8 W. Drilled public-supply artesian well in Meridian sand member, diameter 8 inches, depth 1,760 feet, screen 1,710-1,760. Land-surface datum is 146.31 feet above msl. Highest water level 30.3 above lsd, Apr. 2, 1942; lowest 18.6 above lsd, Oct. 4, 1951. Records available: 1939-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 30, 1948	+23.6	Mar. 24, 1950	+26.1	Dec. 29, 1951	+27.1	Apr. 1, 1953	+23.9
Oct. 15	26.6	July 8	25.6	June 26, 1952	24.1	July 1	21.4
Jan. 1, 1949	27.1	Sept. 30	27.6	Sept. 29	22.6	Oct. 15	21.4
Mar. 31	24.6	Jan. 1, 1951	24.6	Jan. 2, 1953	21.4	Feb. 2, 1954	20.6
July 21	26.1	Oct. 4	18.6				

O10. R. C. Mouton. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, T. 21 N., R. 7 W. Driven unused water-table well in alluvium of Pleistocene age, diameter 1 $\frac{1}{2}$  inches, depth 32 feet. Land-surface datum is about 125 feet above msl. Highest water level 9.60 below lsd, Apr. 15, 1954; lowest 17.80 below lsd, Oct. 21, 1954. Records available: 1954. Nearby well being pumped from June to September.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	10.94	Apr. 15	9.60	July 21	23.39	Oct. 21	17.80
Feb. 8	10.20	May 13	9.81	Aug. 20	22.21	Nov. 18	16.96
Mar. 5	9.89	June 23	19.94	Sept. 23	19.18	Dec. 21	15.90

Q150. Formerly 50. Jones Bayou Gin Association. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 17, T. 21 N., R. 5 W. Drilled domestic artesian well in Meridian sand member, diameter 3 to 2 inches, depth 1,310 feet, cased to 1,310. Land-surface datum is 133.66 feet above msl. Highest water level 20.1 above lsd, May 30, 1939; lowest 5.3 above lsd, Feb. 2, 1954. Records available: 1939-54.

Apr. 18, 1948	+11.0	Oct. 2, 1950	+14.7	Mar. 29, 1952	+13.2	Oct. 15, 1953	+8.5
July 30	14.4	Jan. 1, 1951	14.0	June 26	12.8	Feb. 2, 1954	5.3
Oct. 15	7.2	Apr. 1	14.8	Sept. 29	11.1	Mar. 31	5.5
Jan. 1, 1949	9.3	July 2	15.6	Jan. 2, 1953	10.8	July 8	5.4
July 20	13.4	Oct. 3	14.6	Apr. 1	11.2	Sept. 22	9.4
Mar. 24, 1950	13.7	Dec. 29	15.2	July 1	11.6	Dec. 21	9.2
July 8	14.2						

#### Chickasaw County

D101. Town of Okolona. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 26, T. 12 S., R. 5 E. Drilled unused artesian well in Eutaw formation, diameter 8 inches, reported depth 550 feet. Land-surface datum is about 320 feet above msl. Highest water level 84.60 below lsd, July 9, 1940; lowest 124.00 below lsd, Mar. 5, 1954. Records available: 1940, 1954. Nearby well being pumped. Mar. 5, 124.00; Aug. 3, 119.91; Dec. 2, 113.72.

#### Clay County

H117. Formerly 17. City of West Point. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 15, T. 17 S., R. 6 E. Drilled unused artesian well in Tuscaloosa group, diameter 8 inches, depth 790 feet. Land-surface datum is about 235 feet above msl. Highest water level 3.88 above lsd, June 18, 1940; lowest 6.26 below lsd, Dec. 1, 1954. Records available: 1940, 1954. June 18, 1940, +3.88; Jan. 13, 1954, -5.63; June 22, -5.55; Aug. 5, -6.22; Dec. 1, -6.26.

#### Coahoma County

C111. Formerly 11. Norfleet & Wilsford. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 29 N., R. 2 W. Drilled domestic artesian well in sand of Wilcox formation, diameter 3 to 2 inches, depth 1,821 feet, screen 1, 781-1,821. Land-surface datum is 180.88 feet above msl. Highest water level 40.8 above lsd, July 26, 1940; lowest 21.9 above lsd, Sept. 22, 1954. Records available: 1940-54.

Apr. 18, 1948	+28.8	July 8, 1950	+27.8	Dec. 29, 1951	+29.5	July 2, 1953	+27.2
July 28	31.1	Oct. 3	27.2	Mar. 30, 1952	28.2	Oct. 15	29.2
Oct. 15	32.1	Jan. 8, 1951	29.7	June 26	27.7	Mar. 31, 1954	25.6
Jan. 2, 1949	33.6	Apr. 2	29.6	Sept. 29	26.7	May 15	24.9
July 22	27.4	July 3	29.4	Jan. 3, 1953	26.2	July 7	23.4
Mar. 28, 1950	27.0	Oct. 3	29.2	Apr. 2	26.3	Sept. 22	21.9

D1. S. A. Corley. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 26, T. 28 N., R. 5 W. Drilled irrigation water-table well in alluvium of Pleistocene age, diameter 18 inches, depth 133 feet, slotted casing 93-113, wire-wrapped slotted casing 113-133. Land-surface datum is about 168 feet above msl. Highest water level 13.47 below lsd, Feb. 9, 1954; lowest 16.82 below lsd, Dec. 22, 1954. Records available: 1954. Pumping on May 14, June 24, July 22, and Aug. 25.

Jan. 6	14.41	May 14	52.09	Aug. 25	60.52	Oct. 20	16.30
Feb. 9	13.47	June 24	52.37	Sept. 22	16.28	Dec. 22	16.82
Mar. 10	13.86	July 22	56.99				

E132. Formerly 32. Coahoma County Agricultural High School. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 36, T. 28 N., R. 4 W. Drilled school-supply artesian well in sand of Wilcox formation, diameter 4 inches, reported depth 2,000 feet. Land-surface datum is 176.74 feet above msl. Highest water level 44.9 above lsd, June 24, 1940; lowest 24.5 above lsd, Feb. 3, 1954. Records available: 1940-54.

Apr. 18, 1948	+34.5	July 8, 1950	+33.6	Oct. 4, 1951	+28.1	Jan. 3, 1953	+28.1
July 28	35.9	Oct. 2	32.6	Dec. 29	30.8	Apr. 2	27.4
Oct. 15	31.7	Jan. 8, 1951	31.6	Mar. 30, 1952	28.6	July 2	28.6
Jan. 2, 1949	31.7	Apr. 2	28.1	June 27	28.6	Oct. 15	24.6
July 22	31.6	July 3	32.6	Sept. 29	29.1	Feb. 3, 1954	24.5
Mar. 25, 1950	33.6						

#### De Soto County

E4. Shannon Planting Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 23, T. 2 S., R. 10 W. Driven unused water-table well in alluvium of Pleistocene age, diameter 1 $\frac{1}{2}$  inches, depth 38 feet. Land-surface datum is about 200 feet above msl. Highest water level 15.98 below lsd, May 13, 1954; lowest 28.70 below lsd, Nov. 18, 1953. Records available: 1953-54. Affected by stages of Mississippi River.



## E4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 18, 1953	28.70	Mar. 10, 1954	20.96	July 23, 1954	c31.22	Oct. 19, 1954	24.75
Jan. 6, 1954	28.05	May 13	15.98	Aug. 24	c27.99	Dec. 24	25.02
Feb. 4	19.05	June 24	c27.25	Sept. 22	c27.98		

c Nearby well being pumped.

## Forrest County

D130. Formerly 30. City of Hattiesburg. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 10, T. 4 N., R. 13 W. Community Center Bldg. Drilled unused artesian well in Catahoula sandstone, diameter 10 inches, depth 390 feet, screen 310-390. Land-surface datum is 151.76 feet above msl. Highest water level 7.25 above lsd, June 12, 1950; lowest 1.08 above lsd, Nov. 20, 1953. Records available: 1940-54. Water level cannot be measured below 1.08 feet above land surface.

Mar. 7, 1948	+6.23	June 9, 1949	+4.50	Apr. 1, 1951	+5.61	Dec. 31, 1952	+6.23
Sept. 1	+3.72	June 12, 1950	+7.25	Sept. 12	+2.73	Nov. 20, 1953	+1.08
Apr. 3, 1949	+6.63	Aug. 25	+3.93	May 17, 1952	+3.39	Dec. 31	+2.26

## Daily highest water level, above lsd, from recorder graph, 1954\*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July
1	2.29	1.90	1.92	1.51	1.19	....	....
2	2.42	1.91	1.84	1.47	1.19	....	....
3	2.45	1.86	1.73	1.44	1.19	....	....
4	2.50	1.84	1.73	1.38	1.21	....	....
5	2.44	1.82	1.70	1.30	1.20	....	....
6	2.41	1.79	1.67	1.31	1.19	....	....
7	2.41	1.82	1.66	1.32	1.20	....	....
8	2.32	1.84	1.65	1.33	1.19	....	....
9	2.28	1.82	1.66	1.29	1.19	....	....
10	2.30	1.78	1.69	1.29	1.19	....	1.52
11	2.30	1.73	1.71	1.25	1.18	....	1.60
12	2.03	1.68	1.69	1.23	1.24	....	1.68
13	2.01	1.69	1.64	1.23	1.43	....	1.71
14	2.01	1.70	1.64	1.26	1.41	....	1.77
15	2.04	1.72	1.59	1.25	1.32	....	1.78
16	2.11	1.67	1.58	1.34	1.30	....	1.80
17	2.03	1.63	1.58	1.44	1.30	1.16	1.86
18	2.07	1.62	1.59	1.44	1.27	1.26	1.83
19	2.03	1.63	1.65	1.39	1.27	1.32	1.95
20	2.05	1.67	1.60	1.37	1.23	1.42	2.00
21	2.02	1.77	1.59	1.39	1.14	1.63	2.05
22	2.00	1.84	1.53	1.33	1.10	1.27	2.05
23	1.97	1.84	1.51	1.30	1.09	1.15	1.95
24	1.97	1.85	1.53	1.26	(k)	1.08	1.55
25	1.96	1.89	1.57	1.25	....	1.30	1.30
26	1.96	1.93	1.54	1.27	....	(k)	1.13
27	1.88	2.00	1.54	1.28	....	....	1.08
28	1.88	2.05	1.62	1.31	....	....	(k)
29	1.85		1.67	1.29	....	....	....
30	1.87		1.65	1.20	....	....	....
31	1.91		1.51		....		....

\* No record for August, September, October, November, and December.

j Lowest measurable water level.

k Water level below 1.08 feet.

G116. Formerly A-16. U. S. Government-Mississippi National Guard, Camp Shelby. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 27, T. 3 N., R. 12 W. Drilled observation artesian well in sand of Hattiesburg formation, diameter 4 to 3 inches, depth 416 feet, screen 382-392. Land-surface datum is 258.44 feet above msl. Highest water level 122.08 below lsd, Apr. 2, 1954; lowest 134.75 below lsd, Sept. 29, 1945. Records available: 1943-45, 1954.

Feb. 24	122.11	May 19	123.79	Aug. 31	123.23	Nov. 24	123.71
Mar. 10	122.13	June 15	122.69	Sept. 20	123.34	Dec. 31	125.10
Apr. 2	122.08	July 26	122.86	Oct. 19	123.73		

L150. Formerly 50. Dixie Tung Empire Corp. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 28, T. 1 N., R. 12 W. Drilled domestic water-table well in Citronelle formation, diameter 6 inches, depth 60 feet, cased with tile to 60. Land-surface datum is about 250 feet above msl. Highest water level 39.45 below lsd, Apr. 16, 1948; lowest 50.80 below lsd, Dec. 28, 1951. Records available: 1940-42, 1944-52. Measurement discontinued.

Apr. 16, 1948	39.45	July 27, 1949	40.40	Dec. 30, 1950	44.98	Dec. 28, 1951	50.80
Aug. 5	42.64	Mar. 22, 1950	41.90	Mar. 31, 1951	43.00	Mar. 28, 1952	46.95
Oct. 17	44.60	July 7	42.65	June 30	46.45	June 24	44.95
Dec. 31	41.30	Sept. 30	42.75	Oct. 2	45.85	Sept. 27	47.70

## Grenada County

B103. U. S. Government. Grenada Reservoir. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 23 N., R. 5 E. Drilled unused artesian well in Meridian sand member, diameter 12 to 8 inches, depth 282 feet, screen 227-257. Land-surface datum is 207.07 feet above msl. Highest water level 13.57 below lsd, May 30, 1954; lowest 30.08 below lsd, Oct. 28, 1942. Records available: 1942, 1954. Affected by stage of Grenada Reservoir; well is 0.5 mile below dam.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	19.55	18.18	13.59	16.90	.....	20.04	20.57	20.63	20.58
2	.....	.....	.....	19.51	17.89	13.60	17.08	.....	20.10	20.57	20.68	20.55
3	.....	.....	.....	19.50	17.53	13.64	17.23	19.34	20.20	20.57	20.55	20.50
4	.....	.....	.....	19.49	17.08	13.74	17.28	19.35	20.24	20.58	20.52	20.40
5	.....	.....	.....	19.47	16.60	13.84	17.38	19.38	20.27	20.59	20.56	20.50
6	.....	.....	.....	19.45	16.17	13.90	17.47	19.40	20.28	20.50	20.53	20.60
7	.....	.....	.....	19.45	15.88	13.95	17.58	19.43	20.26	20.55	20.56	20.53
8	.....	.....	.....	19.45	15.66	14.05	17.65	19.46	20.23	20.63	20.57	20.48
9	.....	.....	.....	19.45	15.44	14.15	17.75	19.49	20.22	20.58	20.57	20.54
10	.....	h20.78	.....	19.45	15.20	14.24	17.80	19.55	20.25	20.55	20.60	20.57
11	.....	.....	.....	19.45	15.10	14.34	.....	19.57	20.28	20.53	20.60	20.45
12	h29.08	.....	.....	19.44	14.91	14.45	.....	19.60	20.31	20.55	20.57	20.43
13	.....	.....	.....	19.37	14.78	14.55	.....	19.65	20.33	20.55	20.54	20.47
14	.....	.....	.....	19.32	14.69	14.65	.....	19.70	20.35	20.54	20.53	20.44
15	.....	.....	.....	19.27	14.60	14.77	.....	19.73	20.36	20.57	20.49	20.47
16	.....	h20.54	.....	19.21	14.51	14.88	.....	19.74	20.39	20.61	20.47	20.42
17	.....	.....	.....	19.23	14.41	14.95	.....	19.79	20.41	20.62	20.49	20.43
18	.....	.....	.....	19.15	14.35	15.15	.....	19.84	20.40	20.64	20.45	20.42
19	.....	.....	18.42	19.13	14.30	15.21	.....	19.89	20.40	20.64	20.44	20.47
20	.....	.....	18.66	19.06	14.30	15.41	.....	19.85	20.39	20.62	20.47	20.45
21	.....	.....	19.00	19.04	14.27	15.56	.....	19.85	20.43	20.62	20.45	20.42
22	.....	.....	19.09	18.93	14.23	15.71	.....	19.87	20.47	20.65	20.49	20.41
23	.....	.....	19.17	18.89	14.20	15.87	.....	19.89	20.49	20.67	20.47	20.42
24	.....	.....	19.25	18.83	14.18	16.01	.....	19.86	20.49	20.66	20.49	20.47
25	.....	.....	19.35	18.78	14.15	16.13	.....	19.85	20.48	20.64	20.51	20.46
26	h24.22	.....	19.41	18.71	14.11	16.25	.....	19.86	20.48	20.64	20.48	20.47
27	.....	.....	19.42	18.67	13.89	16.37	.....	19.90	20.48	20.65	20.45	20.20
28	.....	.....	19.43	18.60	13.68	16.50	.....	19.94	20.48	20.56	20.38	19.89
29	.....	.....	19.43	18.49	13.61	16.64	.....	19.94	20.50	20.58	20.57	19.58
30	.....	.....	19.48	18.39	13.57	16.76	.....	19.95	20.56	20.60	20.61	19.18
31	.....	.....	19.53	.....	13.58	.....	.....	19.98	.....	20.61	.....	18.83

h Tape measurement.

F112. Formerly 12. Holcomb School. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 22 N., R. 3 E. Drilled school-supply artesian well in sand of Wilcox formation, diameter 3 inches, depth 983 feet, screen 943-983. Land-surface datum is 183.14 feet above msl. Highest water level 30.4 above lsd, July 31, 1941; lowest 14.4 above lsd, Feb. 3, 1954. Records available: 1939-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 3, 1948	+23.8	Apr. 2, 1951	+17.3	Sept. 30, 1952	+16.2	Feb. 3, 1954	+14.4
July 18, 1949	24.0	July 3	15.9	Jan. 5, 1953	15.5	Mar. 30	15.1
Mar. 28, 1950	25.2	Oct. 4	16.7	Apr. 2	17.3	July 6	14.8
July 10	25.3	Dec. 31	17.2	July 2	16.0	Sept. 21	15.1
Oct. 4	17.7	Mar. 31, 1952	16.8	Oct. 16	17.4	Nov. 30	14.8
Jan. 9, 1951	18.2	June 27	25.7				

F116. Formerly 16. Town of Holcomb. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 22, T. 22 N., R. 3 E. Drilled domestic artesian well in Meridian sand member, diameter 2 inches, reported depth 360 feet. Land-surface datum is 190.89 feet above msl. Highest water level 2.05 below lsd, July 31, 1941; lowest 16.28 below lsd, Mar. 5, 1946. Records available: 1939-46. Measurement discontinued.

H113. Formerly A13. J. W. Willis, Sr. Formerly U. S. Army. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 21 N., R. 5 E. Drilled unused artesian well in Meridian sand member, diameter 12 to 10 inches, depth 216 feet, screen 161-211. Land-surface datum is 216.70 feet above msl. Highest water level 11.04 below lsd, Feb. 16, 1954; lowest 11.65 below lsd, Oct. 8, 1954. Records available: 1954. Feb. 16, 11.04; Mar. 30, 11.13; July 6, 11.43; Oct. 8, 11.65; Nov. 30, 11.20.

H172. Formerly 72. Lynn Thomas. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 14, T. 21 N., R. 5 E. Drilled unused artesian well in sand of Wilcox formation, diameter 2 inches, depth 448 feet. Land-surface datum is 227.55 feet above msl. Highest water level 0.84 below lsd, Apr. 4, 1942; lowest 42.46 below lsd, Sept. 15, 1945. Records available: 1942, 1945-47. Measurement discontinued.

H173. Formerly 73. Carpenter farm. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, T. 21 N., R. 5 E. Drilled unused artesian well in Meridian sand member, diameter 2 inches, depth 300 feet. Land-surface datum is about 228 feet above msl. Highest water level 17.40 below lsd, Apr. 16, 1947; lowest 20.57 below lsd, Jan. 6, 1945. Records available: 1945-47. Measurement discontinued.

#### Harrison County

C147. Formerly 147. Gulf & Ship Island RR. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 5 S., R. 11 W. Dug domestic water-table well, diameter 3 feet, depth 23 feet. Highest water level 15.90 below lsd, July 27, 1949; lowest dry, Dec. 19, 1946. Records available: 1941-42, 1944-54. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16, 1948	17.00	July 7, 1950	19.65	Oct. 2, 1951	19.35	Dec. 30, 1952	18.95
Aug. 5	18.89	Sept. 30	19.30	Dec. 28	20.08	Mar. 31, 1953	17.03
Oct. 17	16.65	Dec. 30	19.80	Mar. 28, 1952	18.20	June 30	17.96
Dec. 31	16.30	Mar. 31, 1951	17.55	June 24	16.30	Oct. 7	19.00
July 27, 1949	15.90	June 30	19.05	Sept. 27	19.40	Jan. 19, 1954	18.15
Mar. 22, 1950	17.55						

G121. Formerly 21. U. S. Fish and Wildlife Service. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 17, T. 6 S., R. 11 W. Drilled unused artesian well in Graham Ferry formation, diameter 3 inches, depth 456 feet, screen 416-456. Land-surface datum is about 65 feet above msl. Highest water level 10.0 below lsd, Apr. 14, 1939; lowest 27.73 below lsd, Aug. 31, 1954. Records available: 1939, 1954. July 26, 26.06; Aug. 31, 27.73; Sept. 20, 26.50; Oct. 30, 26.74; Nov. 28, 26.45; Dec. 28, 26.08.

L154. Formerly 118. U. S. Post Office Department. Gulfport. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, T. 8 S., R. 11 W. Drilled unused artesian well in Graham Ferry formation, diameter 3 inches, depth 1,262 feet, screen 1,232-1,262. Land-surface datum is 19.62 feet above msl. Highest water level 27.1 above lsd, Jan. 31, 1940; lowest 6.2 above lsd, Sept. 6, 1954. Records available: 1939-50, 1954.

Feb. 23, 1948	18.3	Dec. 1, 1948	16.1	May 22, 1950	16.3	Apr. 25, 1954	9.6
Mar. 23	18.4	Aug. 27, 1949	17.3	June 11	16.0	May 5	9.5
Apr. 4	17.7	Sept. 26	17.8	July 19	16.0	June 5	8.1
May 10	17.3	Oct. 5	17.8	Aug. 30	16.0	July 26	8.0
June 2	12.2	Nov. 12	18.0	Sept. 4	16.5	Aug. 16	7.9
July 4	7.6	Dec. 22	18.4	Oct. 12	16.6	Sept. 6	6.2
Aug. 23	11.8	Jan. 31, 1950	18.5	Jan. 25, 1954	9.6	Oct. 25	7.6
Sept. 4	13.4	Feb. 14	18.7	Feb. 15	9.9	Nov. 18	7.6
Oct. 31	15.0	Mar. 8	18.2	Mar. 21	9.4	Dec. 22	7.6
Nov. 27	16.1	Apr. 3	18.0				

M120. Formerly 120. City of Biloxi. 1332 West Howard Ave. Drilled unused artesian well in Graham Ferry formation, diameter 8 inches, depth 928 feet. Land-surface datum is 21.28 feet above msl. Highest water level 44 feet above lsd, 1903; lowest 30.85 below lsd, June 24, 1954. Records available: 1945-46, 1954.

Daily highest water level from recorder graph\*

Day	Mar.	Apr.	May	June	July	Sept.	Oct.	Nov.	Dec.
1	....	5.72	....	12.84	23.23	27.05	25.62	16.96	....
2	....	6.60	....	13.77	24.27	27.78	25.22	16.45	....
3	....	6.05	....	15.25	23.55	27.91	23.18	16.35	....
4	....	4.63	....	15.83	21.45	28.88	22.95	16.09	....
5	....	5.95	....	14.42	20.77	27.06	24.52	15.58	....
6	....	6.44	....	14.05	20.75	26.52	24.86	15.48	....
7	....	6.56	....	14.27	21.65	27.60	24.20	14.65	....
8	....	6.80	....	17.25	20.95	28.36	22.39	14.59	....
9	....	7.40	....	....	19.60	28.80	22.00	14.86	....
10	....	7.26	....	....	18.84	28.01	21.07	14.86	....
11	3.11	7.95	....	....	17.97	28.50	21.26	14.60	....
12	4.00	8.13	....	....	17.99	27.67	21.70	13.07	10.42
13	4.57	....	....	....	18.72	27.43	20.73	13.97	....
14	3.78	....	....	....	19.82	28.88	20.68	14.12	10.80
15	4.47	....	....	19.95	18.31	27.60	20.25	12.97	10.80
16	5.26	....	....	19.95	17.95	24.18	18.37	12.98	10.88
17	5.08	....	....	19.97	17.67	24.10	17.97	14.28	9.85
18	5.38	8.27	....	20.40	....	23.80	17.88	13.92	9.46
19	5.47	8.04	12.20	18.65	....	21.48	20.12	13.87	7.89
20	5.29	....	13.15	16.35	19.90	21.41	19.63	14.12	7.85

M120--Continued.

Day	Mar.	Apr.	May	June	July	Sept.	Oct.	Nov.	Dec.
21	4.29	....	13.53	18.04	19.75	24.15	19.60	12.73	7.40
22	3.61	....	12.65	18.83	19.81	24.74	19.70	12.73	6.20
23	4.88	....	12.88	19.05	19.48	24.88	19.32	12.34	6.35
24	5.89	....	12.79	26.45	19.99	25.40	18.68	12.85	5.22
25	5.73	....	11.80	26.35	18.15	24.65	18.48	12.35	5.00
26	4.80	....	12.05	24.95	18.05	23.78	18.95	11.58	....
27	5.09	....	10.95	22.55	....	25.36	18.99	12.08	4.48
28	4.90	....	12.45	22.10	....	25.55	19.16	10.38	3.93
29	4.57	....	12.00	21.92	....	25.65	19.05	....	3.45
30	5.39	....	12.10	23.15	....	26.23	17.58	....	3.69
31	5.71	....	12.77	....	....	....	16.70	....	....

\* No record for January, February, and August.

Daily lowest water level from recorder graph\*

Day	Mar.	Apr.	May	June	July	Sept.	Oct.	Nov.	Dec.
1	....	7.25	....	15.24	25.89	29.00	26.77	17.75	....
2	....	6.94	....	15.79	25.30	29.67	25.86	17.52	....
3	....	6.79	....	17.46	24.44	29.95	25.19	17.52	....
4	....	6.56	....	17.19	23.57	30.05	24.93	17.60	....
5	....	8.27	....	17.01	21.45	29.17	26.05	17.01	....
6	....	8.13	....	15.15	21.65	28.28	25.95	17.11	....
7	....	8.05	....	17.25	22.83	29.44	24.99	15.70	....
8	....	9.25	....	....	22.49	30.00	24.10	15.20	....
9	....	9.05	....	....	21.15	30.52	23.84	15.31	....
10	....	9.05	....	....	19.82	30.02	22.38	15.45	....
11	5.47	8.85	....	....	18.85	30.02	22.38	15.89	....
12	5.40	....	....	....	19.35	28.50	23.80	14.68	....
13	5.64	....	....	....	20.19	30.00	22.93	14.91	....
14	5.65	....	....	....	20.52	30.22	21.80	14.86	....
15	5.81	....	....	....	19.80	30.18	21.23	14.16	11.95
16	5.85	....	....	21.11	19.18	27.60	20.63	14.40	12.00
17	5.87	....	....	22.20	18.35	24.80	18.65	15.10	10.79
18	5.87	....	....	21.35	....	24.66	19.99	15.07	10.87
19	5.83	....	14.00	20.55	....	24.17	21.21	14.20	9.46
20	6.13	....	15.54	18.68	20.45	25.14	20.31	14.71	8.20
21	5.70	....	14.87	19.80	20.77	25.80	20.08	14.71	8.20
22	8.34	....	14.16	19.89	20.30	26.84	20.75	14.00	7.49
23	6.23	....	14.16	26.45	20.65	26.00	20.94	14.51	6.70
24	6.70	....	14.36	30.85	21.20	26.18	20.08	13.36	6.30
25	6.40	....	14.36	29.55	19.85	25.84	19.45	13.32	5.88
26	6.35	....	13.32	26.50	19.35	25.72	19.45	12.62	....
27	6.32	....	12.96	25.05	....	26.78	20.05	12.61	5.00
28	5.96	....	13.41	22.86	....	26.71	21.12	12.24	4.89
29	5.83	....	13.82	23.31	....	26.59	19.73	....	4.48
30	5.72	....	13.98	24.05	....	27.71	19.90	....	....
31	6.01	....	14.55	....	....	....	17.58	....	....

\* No record for January, February, and August.

M169. Formerly 69. C. F. Burkhardt. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 25, T. 7 S., R. 10 W. Drilled domestic artesian well in Graham Ferry formation, diameter 3 inches, depth 720 feet. Land-surface datum is 27.42 feet above msl. Highest water level 19.4 above lsd, Mar. 23, 1939; lowest 17.10 below lsd, Sept. 27, 1952. Records available: 1939, 1942-46, 1948, 1950-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16, 1948	+2.24	July 7, 1950	-7.65	June 30, 1951	-7.50	Oct. 28, 1953	-16.8
Aug. 6	-3.09	Sept. 30	6.00	Dec. 28	6.59	Jan. 19, 1954	8.7
Oct. 16	-1.30	Dec. 30	2.20	Mar. 28, 1952	12.60	Feb. 24	9.2
Dec. 31	+0.07	Mar. 31, 1951	7.63	Sept. 27	17.10	Apr. 2	10.7
Mar. 22, 1950	-0.05						

Hinds County

G125. Formerly J25. Country Club of Jackson. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 25, T. 6 N., R. 1 W. Drilled unused artesian well in Sparta sand, diameter 6 inches, depth 862 feet. Land-surface datum is 369.34 feet above msl. Highest water level 160 below lsd, 1928; lowest 229.00 below lsd, Sept. 23, 1954. Records available: 1944-54.

G125--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12, 1948	192.78	Aug. 9, 1950	209.40	Mar. 3, 1953	218.90	Sept. 11, 1953	224.9
Feb. 7	192.94	Sept. 8	209.10	13	218.4	18	225.0
Mar. 4	192.66	Oct. 4	209.10	18	218.2	24	225.3
Apr. 9	192.77	Nov. 3	209.42	26	218.43	30	225.4
May 7	193.21	Dec. 11	209.70	29	218.4	Oct. 13	225.3
June 21	192.50	Jan. 4, 1951	207.80	Apr. 5	218.0	16	225.7
July 9	195.38	23	213.90	15	218.4	20	226.2
Aug. 9	198.22	Jan. 2, 1952	214.40	19	218.2	Nov. 5	225.8
Nov. 30	200.23	Feb. 6	213.50	27	217.7	14	224.8
Dec. 6	192.92	Mar. 5	213.10	May 6	218.6	19	224.9
Jan. 23, 1949	199.73	Apr. 2	215.00	15	218.7	24	225.1
Feb. 5	199.83	May 5	219.4	22	219.3	Dec. 2	224.7
Mar. 9	199.63	June 6	214.4	29	219.1	9	224.5
Apr. 12	199.51	July 2	214.8	June 3	218.4	17	223.39
May 6	199.95	Aug. 2	217.4	9	221.3	Jan. 1, 1954	224.9
June 3	201.62	Sept. 1	220.7	17	221.7	8	223.8
July 5	202.46	Oct. 2	222.4	25	221.4	14	223.2
Aug. 1	203.03	Nov. 4	222.1	30	223.1	18	223.4
Sept. 7	203.96	Dec. 5	221.1	July 7	222.9	28	222.4
Oct. 5	204.26	Jan. 2, 1953	220.4	15	223.2	Feb. 5	221.8
Nov. 1	203.42	9	219.2	23	222.4	Mar. 1	221.67
Dec. 1	203.90	12	219.0	30	223.4	22	220.03
Jan. 19, 1950	206.40	22	219.3	Aug. 9	223.9	Apr. 12	220.66
Feb. 8	205.80	28	223.1	13	224.2	June 28	224.52
Mar. 4	204.36	Feb. 5	219.5	19	224.2	July 19	226.07
Apr. 11	205.46	11	218.95	26	225.4	Aug. 16	227.92
May 3	205.06	18	218.90	27	224.5	23	228.60
June 5	207.28	27	218.98	Sept. 6	224.8	Sept. 23	229.00
July 3	207.94						

H119. Formerly J19. Alton T. Ellick. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, T. 6 N., R. 1 E. Drilled domestic artesian well in Sparta sand, diameter 4 inches, depth 640 feet. Land-surface datum is 372.44 feet above msl. Highest water level 184.37 below lsd, Mar. 10, 1946; lowest 190.84 below lsd, Dec. 18, 1946. Records available: 1945-46. Measurement discontinued.

H121. Formerly J21. Virginia-Carolina Chemical Co. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T. 6 N., R. 1 E. Drilled unused artesian well in Sparta sand, diameter 6 inches, reported depth 700 feet. Land-surface datum is 334.12 feet above msl. Highest water level 142.73 below lsd, Sept. 11, 1944; lowest 178.8 below lsd, Jan. 1, 1954. Records available: 1944-45, 1947, 1949-54.

Aug. 12, 1949	154.4	Oct. 4, 1950	163.2	May 5, 1952	163.8	July 13, 1953	173.9
Sept. 13	158.8	Nov. 5	163.7	July 6	169.2	Aug. 9	174.1
Oct. 5	158.2	Dec. 11	164.4	Aug. 4	170.4	Sept. 11	174.5
Nov. 1	158.8	Jan. 4, 1951	163.40	Sept. 8	171.9	Oct. 7	176.5
Dec. 1	158.5	July 2	136.9	Oct. 2	172.6	Nov. 5	177.3
Jan. 19, 1950	154.4	Aug. 6	139.0	Nov. 5	173.1	Dec. 9	177.1
Mar. 2	155.8	Oct. 2	141.6	Dec. 5	175.4	Jan. 1, 1954	178.8
Apr. 3	160.8	Nov. 6	151.7	Jan. 2, 1953	173.2	Feb. 5	177.6
May 4	160.7	Dec. 8	149.6	Feb. 5	173.3	Mar. 1	176.9
June 2	156.5	Jan. 5, 1952	154.9	Mar. 3	173.4	Apr. 12	177.9
July 3	161.6	Feb. 2	160.7	Apr. 5	172.5	June 28	177.2
Aug. 4	163.4	Mar. 2	163.6	May 6	173.0	July 26	177.7
Sept. 8	164.9	Apr. 2	168.6	June 3	177.9	Aug. 23	177.4

H160. Colonial Country Club. SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 7, T. 6 N., R. 2 E. Drilled unused artesian well in Sparta sand, diameter 6 inches, reported depth 700 feet. Land-surface datum is about 305 feet above msl. Highest water level 136.73 below lsd, Mar. 30, 1954; lowest 144.70 below lsd, Oct. 6, 1954. Records available: 1954.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	137.56	137.44	136.87	137.34	.....	139.77	141.21	142.97	144.03	143.75	141.96
2	.....	137.48	137.47	136.91	137.33	137.80	140.00	141.22	143.02	144.06	143.75	141.88
3	.....	137.40	137.67	136.96	137.29	137.82	140.10	141.27	143.09	144.06	143.65	141.81
4	.....	137.42	137.75	136.96	137.39	137.86	140.06	141.34	143.14	144.21	143.53	141.75
5	.....	137.46	137.67	137.00	137.36	137.92	140.03	141.37	143.21	144.17	143.42	141.58
6	.....	137.45	137.58	137.08	137.34	137.97	140.08	141.44	143.28	144.25	143.30	141.71
7	.....	137.55	137.50	137.12	137.39	138.03	140.14	141.48	143.33	144.21	143.26	.....
8	.....	137.53	137.41	137.19	137.43	138.20	140.10	141.54	143.38	144.15	143.24	.....
9	.....	137.45	137.27	137.22	137.42	138.19	140.13	141.90	143.32	144.12	143.18	.....
10	.....	137.39	137.20	137.27	137.46	.....	140.21	141.99	143.38	144.20	143.19	.....

## H160--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	138.01	137.44	137.33	137.29	137.35	.....	140.39	142.06	143.52	144.08	143.15	.....
12	138.04	137.74	137.33	137.36	137.27	.....	140.36	142.14	143.63	144.00	143.10	.....
13	138.00	137.72	137.22	137.34	137.24	.....	140.43	142.22	143.55	143.97	142.90	.....
14	137.87	137.70	137.36	137.20	137.32	138.54	140.61	142.29	143.64	144.01	142.80	.....
15	137.64	137.66	137.42	137.20	137.34	138.49	140.70	142.36	143.78	144.02	142.68	.....
16	137.66	137.64	137.45	137.16	137.35	138.49	140.72	142.43	143.72	144.07	142.62	.....
17	137.67	137.68	137.31	137.29	137.36	138.57	140.68	142.46	143.64	144.12	142.48	.....
18	137.58	137.63	137.15	137.33	137.38	138.67	140.60	142.54	143.61	144.10	142.40	.....
19	137.55	137.46	137.02	137.35	137.35	138.74	140.57	142.64	143.67	144.12	142.38	.....
20	137.61	137.48	137.04	137.43	137.51	138.90	140.52	142.62	143.65	144.06	142.36	.....
21	137.56	137.55	137.11	137.42	137.61	139.00	140.56	142.58	143.64	144.01	142.28	.....
22	137.56	137.56	137.08	137.53	137.64	139.03	140.62	142.57	143.55	144.06	142.09	.....
23	137.61	137.57	137.03	137.53	137.63	139.04	140.71	142.55	143.60	144.07	142.10	.....
24	137.58	137.58	137.01	137.56	137.68	139.09	140.81	142.57	143.68	144.11	142.13	.....
25	137.56	137.40	137.05	137.61	137.70	139.23	140.91	142.54	143.73	144.04	142.10	.....
26	137.55	137.34	137.04	137.62	137.79	139.53	140.95	142.59	143.77	144.05	142.07	.....
27	137.54	137.21	136.84	.....	137.82	139.58	140.97	142.65	143.83	143.98	142.05	140.98
28	137.57	137.38	136.79	.....	137.69	139.54	141.00	142.74	143.90	143.81	141.91	140.60
29	137.57	.....	136.74	.....	137.67	139.53	141.03	142.68	143.94	143.76	142.12	140.57
30	137.54	.....	136.73	.....	137.73	139.67	141.12	142.69	143.98	143.76	142.14	140.73
31	137.57	.....	136.74	.....	137.75	.....	141.18	142.84	143.75	.....	.....	140.78

N138. Formerly J38. Mississippi Cotton Oil Co. In Jackson. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, T. 5 N., R. 1 E. Drilled unused artesian well in Sparta sand, diameter 4 inches, depth 730 feet. Land-surface datum is 282.16 feet above msl. Highest water level 104.10 below lsd, May 5, 1945; lowest 166.34 below lsd, Sept. 13, 1954. Records available: 1944-47, 1949-54. Near center of heavily pumped district.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 12, 1949	135.56	Nov. 5, 1950	153.20	July 6, 1952	155.82	Sept. 11, 1953	148.50
Sept. 13	143.39	Dec. 11	153.80	Aug. 4	156.20	Oct. 7	156.00
Oct. 5	136.95	Jan. 4, 1951	126.40	Sept. 8	156.70	Nov. 5	157.40
Nov. 1	139.88	July 2	140.20	Oct. 2	156.75	Dec. 9	140.60
Dec. 1	137.30	Aug. 6	138.30	Nov. 5	156.30	Jan. 1, 1954	136.90
Jan. 19, 1950	135.40	Sept. 4	136.50	Dec. 5	140.20	Feb. 5	158.60
Mar. 2	128.40	Oct. 1	134.60	Jan. 2, 1953	135.50	Mar. 1	140.83
Apr. 3	127.86	Nov. 3	134.00	Feb. 5	133.70	23	144.20
May 4	138.37	Dec. 3	133.20	Mar. 3	133.00	Apr. 12	143.20
June 2	144.80	Jan. 5, 1952	132.70	Apr. 5	132.70	June 21	157.07
July 3	149.60	Feb. 2	131.40	May 6	143.40	Aug. 16	155.26
Aug. 4	151.30	Mar. 3	130.30	June 3	136.50	30	163.34
Sept. 8	151.80	Apr. 2	129.10	July 13	137.00	Sept. 13	166.34
Oct. 4	146.10	May 5	129.50	Aug. 9	147.70	Nov. 29	145.44

N139. Mississippi Cotton Oil Co. Jackson. 177 North Gallatin St. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, T. 5 N., R. 1 E. Drilled unused artesian well in Sparta sand, diameter 10 to 6 inches, depth 734 feet. Land-surface datum is 282.1 feet above msl. Highest water level 132.5 below lsd, Aug. 7, 1944; lowest 168.22 below lsd, Sept. 3, 1954. Records available: 1944, 1954. Near center of heavily pumped district.

## Daily highest water level from recorder graph\*

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	153.65	148.90	160.74	155.14	165.55	164.26	148.15	144.54
2	.....	149.22	151.75	160.34	154.02	165.18	163.64	148.50	144.87
3	.....	147.20	152.76	159.74	156.98	165.25	159.33	149.10	145.88
4	.....	144.86	151.72	153.81	158.33	164.86	158.74	149.08	145.80
5	.....	144.50	149.85	152.68	159.12	159.91	163.18	149.10	144.88
6	.....	144.49	145.80	152.46	159.69	158.81	164.16	149.05	143.94
7	.....	145.70	144.84	155.32	160.18	158.86	164.63	.....	143.90
8	.....	146.14	150.16	156.68	155.74	162.11	162.87	.....	143.90
9	.....	141.96	152.98	157.30	154.34	163.00	160.96	148.60	143.95
10	.....	141.20	154.81	157.44	157.57	163.64	157.59	149.93	144.77
11	.....	140.28	154.92	153.34	159.60	163.01	157.40	150.81	144.39
12	.....	139.08	156.00	151.44	160.30	158.76	160.95	150.50	142.63
13	.....	.....	149.82	155.18	161.09	158.23	161.91	150.54	141.80
14	.....	.....	148.95	156.42	160.38	161.80	162.45	.....	142.08
15	.....	.....	154.50	157.17	155.66	164.42	159.63	.....	142.58

## N139--Continued.

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	141.06	156.82	157.42	154.56	165.27	156.33	148.60	142.35
17	.....	140.38	157.76	157.50	158.33	164.72	152.98	148.80	143.80
18	.....	.....	159.68	154.07	160.47	163.91	152.40	148.38	144.29
19	.....	.....	160.18	152.82	162.24	159.05	153.21	148.60	142.18
20	.....	.....	154.18	155.72	163.02	158.23	153.11	.....	141.37
21	.....	.....	153.21	158.12	163.11	162.70	152.91	.....	141.80
22	.....	145.17	158.65	159.73	157.74	163.59	153.05	.....	142.40
23	.....	142.89	159.94	160.22	156.45	162.38	152.96	.....	143.53
24	.....	142.13	160.92	162.14	161.69	161.45	150.56	.....	142.85
25	.....	146.20	161.22	156.72	163.76	161.92	150.41	.....	138.96
26	.....	149.46	161.14	155.76	164.78	157.57	153.54	.....	136.74
27	.....	150.06	155.36	158.82	165.02	157.06	154.43	.....	136.48
28	.....	149.84	154.26	159.73	164.53	161.52	154.67	.....	139.50
29	.....	151.23	157.73	161.30	160.00	163.11	152.42	143.22	141.18
30	154.53	146.66	159.44	162.05	159.96	163.87	150.32	143.72	140.34
31	.....	145.90	.....	160.57	163.09	.....	148.15	.....	139.40

\* No record for January, February, and March.

## Daily lowest water level from recorder graph\*

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	156.86	153.87	163.65	160.58	167.83	167.20	149.18	145.71
2	.....	154.64	155.36	163.21	158.40	167.83	166.76	149.84	145.89
3	.....	149.22	154.83	162.39	160.27	168.22	163.63	149.79	146.60
4	.....	147.20	153.74	159.74	161.30	167.87	164.28	149.58	146.60
5	.....	145.35	152.45	154.02	161.95	164.91	166.08	150.34	146.42
6	.....	147.02	149.54	156.92	162.62	159.92	167.19	149.89	144.88
7	.....	148.29	151.76	158.89	162.37	163.99	166.85	149.05	144.75
8	.....	148.29	154.80	159.70	160.94	165.95	165.33	148.89	144.79
9	.....	146.14	156.69	160.21	158.81	165.69	163.60	150.53	145.44
10	.....	141.97	157.99	159.68	161.38	166.85	160.96	151.46	145.42
11	.....	141.72	158.37	157.70	162.52	166.72	162.40	151.24	145.05
12	.....	142.20	158.14	156.78	163.45	164.02	163.59	151.30	144.39
13	.....	.....	155.34	158.62	163.26	162.68	164.28	151.18	142.63
14	.....	.....	155.72	159.70	162.94	166.10	165.10	150.78	142.84
15	.....	.....	158.71	160.15	160.48	167.55	165.68	149.30	142.95
16	.....	.....	160.32	160.10	159.32	167.06	159.63	149.43	143.80
17	.....	.....	161.62	159.80	162.29	167.05	156.33	149.89	144.91
18	.....	.....	163.10	157.68	163.92	166.83	153.41	149.68	144.91
19	.....	.....	162.60	157.42	165.25	163.91	154.01	149.36	144.56
20	.....	.....	160.18	160.14	165.64	163.97	153.99	148.60	142.18
21	.....	147.48	159.26	161.90	165.20	165.56	154.10	.....	142.60
22	.....	147.28	161.77	162.55	163.12	165.12	154.07	.....	143.97
23	.....	145.56	163.25	163.58	162.08	163.98	153.67	.....	144.58
24	.....	146.79	163.73	163.58	165.32	163.70	152.96	.....	144.58
25	.....	146.20	163.86	162.20	166.78	163.55	153.72	.....	142.85
26	.....	152.41	163.50	160.32	167.30	161.92	155.27	.....	138.96
27	.....	152.16	161.28	161.62	167.09	162.54	156.73	.....	139.50
28	.....	153.53	159.14	162.70	166.68	165.10	156.50	.....	142.04
29	.....	153.25	161.49	164.22	165.10	165.96	154.67	143.72	142.10
30	157.30	151.06	162.89	163.92	164.76	167.02	154.42	144.45	141.18
31	.....	151.33	.....	163.17	167.40	.....	150.32	.....	140.34

\* No record for January, February, and March.

N146. Formerly J46. Mississippi Power & Light Co. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 10, T. 5 N., R. 1 E. Drilled industrial artesian well in Sparta sand, diameter 10 inches, reported depth 750 feet. Land-surface datum is 280.75 feet above msl. Highest water level 101.82 below lsd, Jan. 30, 1946; lowest 151.70 below lsd, Oct. 4, 1950. Records available: 1945-47, 1949-50. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 12, 1949	130.31	Dec. 1, 1949	127.00	May 4, 1950	128.66	Sept. 8, 1950	138.10
Sept. 13	128.20	Jan. 19, 1950	119.70	June 2	132.70	Oct. 4	151.70
Oct. 5	128.00	Mar. 2	121.40	July 3	138.57	Nov. 6	141.50
Nov. 1	129.35	Apr. 3	120.50	Aug. 4	137.60	Dec. 11	139.10

Holmes County

K138. Formerly 38. Town of Tchula. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, T. 15 N., R. 1 E. Drilled public-supply artesian well in Winona sand, diameter 5 to 3 inches, depth 987 feet, cased to 987 and perforated. Land-surface datum is 118.25 feet above msl. Highest water level 52 above lsd, 1919; lowest 13.15 above lsd, July 31, 1941. Records available: 1919, 1936, 1938-49. Apr. 17, 1948, +18.73; Aug. 4, +15.73; Oct. 16, +15.70; Jan. 1, 1949, +15.90. Measurement discontinued.

P159. Formerly 59. M. L. Smith. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, T. 14 N., R. 1 W. Drilled public-supply artesian well in Meridian sand member, diameter 3 to 2 inches, depth 1,597 feet, screen 1,557-1,597. Land-surface datum is 111.72 feet above msl. Highest water level 139.6 above lsd, July 31, 1941; lowest 119.4 above lsd, Feb. 3, 1954. Records available: 1939-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 17, 1948	+127.7	July 9, 1950	+129.1	Oct. 5, 1951	+123.1	Jan. 2, 1953	+123.1
Aug. 4	127.3	Oct. 3	125.1	Dec. 31	123.1	Apr. 1	123.1
Oct. 16	128.2	Jan. 8, 1951	123.6	Mar. 30, 1952	123.6	July 1	121.1
Jan. 1, 1949	126.6	Apr. 2	123.9	June 26	121.1	Oct. 9	121.1
July 19	126.1	July 3	124.6	Sept. 29	122.1	Feb. 3, 1954	119.4
Mar. 23, 1950	125.1						

Humphreys County

C110. Formerly 10. Wister Henry. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 16 N., R. 3 W. Drilled domestic artesian well in Meridian sand member, diameter 4 to 2 inches, depth 1,627 feet, screen 1,587-1,627. Land-surface datum is 115.21 feet above msl. Highest water level 114.3 above lsd, Feb. 1, 1941; lowest 87.2 above lsd, July 9, 1954. Records available: 1939-41, 1944-54.

Apr. 17, 1946	+100.4	Oct. 3, 1950	+100.8	Mar. 30, 1952	+97.4	Oct. 16, 1953	+94.2
Aug. 4	99.7	Jan. 8, 1951	97.6	June 26	96.2	Feb. 2, 1954	94.0
Oct. 16	99.4	Apr. 2	88.8	Sept. 29	95.2	Mar. 31	94.5
Dec. 31	100.0	July 3	96.8	Jan. 2, 1953	94.8	July 9	87.2
July 19, 1949	98.9	Oct. 4	98.6	Apr. 1	95.2	Sept. 23	93.0
Mar. 23, 1950	100.4	Dec. 31	96.8	July 1	95.2	Nov. 30	92.2
July 9	97.8						

F118. Formerly 18. J. C. Holbrook. NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 3, T. 15 N., R. 3 W. Drilled domestic artesian well in Sparta sand, diameter 4 inches, reported depth 750 feet. Highest water level 22 above lsd, 1919; lowest 8.43 below lsd, Apr. 2, 1951. Records available: 1919, 1938-41, 1944-52. Measurement discontinued.

Apr. 17, 1948	7.23	July 20, 1949	7.60	Jan. 8, 1951	6.93	Oct. 4, 1951	6.37
Aug. 4	5.43	Mar. 23, 1950	7.93	Apr. 2	8.43	Dec. 31	6.87
Oct. 16	6.15	July 9	5.73	July 3	6.57	Mar. 30, 1952	5.37
Dec. 31	8.15	Oct. 3	5.43				

K156. Formerly 56. Town of Louise. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 15, T. 13 N., R. 4 W. Drilled public-supply artesian well in Sparta sand, diameter 6 inches, depth 909 feet. Land-surface datum is 106 feet above msl. Highest water level 24.3 above lsd, Aug. 17, 1939; lowest 10.30 above lsd, Mar. 29, 1952. Records available: 1939-52. Measurement discontinued.

Apr. 17, 1948	15.11	July 18, 1949	17.60	Oct. 2, 1950	16.10	July 2, 1951	15.30
Aug. 3	17.10	Mar. 23, 1950	18.40	Jan. 1, 1951	14.60	Dec. 29	11.10
Oct. 16	12.60	July 8	16.10	Apr. 1	15.60	Mar. 29, 1952	10.30
Dec. 31	16.35						

Jackson County

J109. Formerly 9. Camp McClellan. Drilled domestic artesian well in Pascagoula formation, diameter 3 inches, depth 954 feet. Records available: 1940-47. Measurement discontinued.

Jones County

C130. Formerly 30. Ed Howard. Drilled domestic water-table well, diameter 8 inches, depth 21 feet. Records available: 1940-47. Measurement discontinued.

G101. Masonite Corp. SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, T. 8 N., R. 11 W. Drilled unused artesian well in Catahoula sandstone, diameter 24 to 12 inches, reported depth 215 feet, screen 150-210. Land-surface datum is 216.0 feet above msl. Highest water level 82.25 below lsd, Feb. 22, 1940; lowest 141.34 below lsd, Apr. 16, 1948. Records available: 1940, 1948, 1950-54.

Apr. 16, 1948	141.34	Dec. 30, 1950	124.90	Sept. 26, 1952	128.90	Oct. 7, 1953	129.50
Mar. 22, 1950	136.95	Mar. 31, 1951	115.80	Dec. 29	139.10	Apr. 2, 1954	125.14
July 7	134.20	Mar. 28, 1952	113.60	Mar. 30, 1953	134.49	June 15	128.60
Sept. 30	132.90	June 24	123.63	June 29	131.86		



G127. Formerly 27. U. S. Dept. of Agriculture, starch plant. Drilled industrial artesian well, diameter 10 inches, depth 272 feet. Records available: 1940-47. Measurement discontinued.

Q108. Formerly 108. Town of Ovett. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 6 N., R. 10 W. Drilled unused artesian well in Catahoula sandstone, diameter 2 inches, depth 212 feet, cased to 30 feet. Land-surface datum is about 175 feet above msl. Highest water level 4.38 above lsd, Mar. 14, 1940; lowest 0.80 above lsd, June 15, 1954. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16, 1948	+3.05	July 7, 1950	+2.30	Mar. 28, 1952	+1.95	Oct. 7, 1953	+1.20
Aug. 6	2.20	Sept. 30	2.30	June 24	1.80	Jan. 20, 1954	1.50
Oct. 17	2.30	Dec. 30	2.40	Sept. 26	1.50	Apr. 2	1.60
Dec. 31	2.65	Mar. 31, 1951	3.40	Dec. 29, 1952	1.55	June 15	.80
July 29, 1949	1.80	June 30	2.17	Mar. 30, 1953	1.70	July 27	1.30
Mar. 22, 1950	2.70	Oct. 2	1.93	June 29	1.20		

#### Lafayette County

F137. Formerly 37. Dr. E. F. Linder. Dug domestic water-table well in sand, diameter 30 inches, depth 26 feet. Records available: 1940-47. Measurement discontinued.

#### Lee County

L101. U. S. Fish and Wildlife Service. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 6, T. 10 S., R. 6 E. Drilled hatchery supply well in Eutaw formation, diameter 6 inches, depth 412 feet. Land-surface datum is 262.3 feet above msl. Highest water level 47.11 below lsd, Apr. 15, 1948; lowest 74.56 below lsd, Mar. 5, 1954. Records available: 1948, 1950-54.

Apr. 15, 1948	47.11	Mar. 31, 1951	51.85	Sept. 26, 1952	b75.10	Jan. 5, 1954	71.60
Mar. 21, 1950	53.50	June 30	b70.37	Dec. 29	50.80	Mar. 5	74.56
July 6	b76.50	Dec. 27	54.60	Mar. 30, 1953	63.36	Aug. 4	d96.64
Sept. 29	51.65	Mar. 27, 1952	66.88	June 29	b93.05	Dec. 2	d81.59
Dec. 29	50.70	June 23	b86.60	Oct. 27	d81.51		

b Pumped recently.

d Nearby well pumped recently.

#### Leflore County

D160. Formerly 60. Mrs. D. B. Jameson. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 31, T. 21 N., R. 1 W. Drilled domestic artesian well in Tallahatta formation, diameter 2 inches, depth 816 feet, cased to 816. Land-surface datum is 132.05 feet above msl. Highest water level 30 above lsd, 1919; lowest 5.9 above lsd, Sept. 30, 1952, Oct. 16, 1953. Records available: 1919, 1938-54.

Apr. 18, 1948	+7.9	July 9, 1950	+10.9	Oct. 4, 1951	+9.4	Jan. 3, 1953	+10.2
July 30	9.0	Oct. 4	10.5	Dec. 31	10.1	Apr. 2	10.6
Oct. 15	8.8	Jan. 8, 1951	10.9	Mar. 31, 1952	10.6	July 2	7.3
Jan. 1, 1949	11.0	Apr. 2	10.7	June 27	8.9	Oct. 16	5.9
July 20	6.3	July 4	10.1	Sept. 30	5.9	Feb. 2, 1954	9.0
Mar. 24, 1950	11.0						

L136. Formerly 136. A. P. Haynes. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 12, T. 19 N., R. 1 E. Drilled domestic artesian well in Meridian sand member, diameter 4 inches, depth 800 feet, screen 760-800. Land-surface datum is 131.30 feet above msl. Highest water level 38.7 above lsd, July 4, 1942; lowest 15.8 above lsd, Sept. 21, 1954. Records available: 1938-54.

Apr. 17, 1948	29.4	July 9, 1950	26.1	Mar. 31, 1952	28.5	Oct. 16, 1953	21.0
Aug. 3	27.9	Oct. 4	27.1	June 27	25.5	Feb. 3, 1954	19.8
Oct. 16	20.6	Jan. 9, 1951	27.5	Sept. 30	22.5	Mar. 30	18.4
Jan. 1, 1949	29.1	Apr. 2	28.9	Jan. 5, 1953	24.5	July 6	16.1
July 19	23.9	July 3	26.5	Apr. 2	26.0	Sept. 21	15.8
Mar. 24, 1950	30.2	Dec. 31	27.5	July 2	22.1	Nov. 30	17.9

L152. Formerly 152. City of Greenwood. NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, T. 19 N., R. 1 E. Drilled unused artesian well in Tallahatta formation, diameter 6 inches, depth 660 feet, reported screened 620-640. Land-surface datum is 133.98 feet above msl. Highest water level 19.9 above lsd, Aug. 5, 1944; lowest 19.3 below lsd, June 27, 1948. Records available: 1938, 1940-50, 1954.

Jan. 20, 1948	+19.2	June 27, 1948	-19.3	June 9, 1949	-14.8	Dec. 6, 1949	-11.4
Feb. 10	-17.6	July 2	17.5	July 8	14.3	Jan. 20, 1950	13.3
Mar. 23	15.1	Aug. 20	15.7	Sept. 15	9.5	Feb. 2	12.8
Apr. 3	14.7	Sept. 5	14.5	Oct. 26	11.4	Apr. 20, 1954	c-26.87
May 26	13.7	May 16, 1949	16.8	Nov. 14	11.8	Nov. 10	+3.87

c Nearby well being pumped.

Monroe County

C101. Town of Amory. NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 26, T. 12 S., R. 19 W. Drilled unused artesian well in Tuscaloosa group, diameter 8 inches, reported depth 300 feet. Land-surface datum is about 240 feet above msl. Highest water level 0.63 below lsd, Dec. 14, 1954; lowest 2.52 below lsd, Aug. 25, 1954. Records available: 1954.

Daily highest water level from recorder graph

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	1.90	....	1.16	1.60	17	1.35	1.47	1.36	1.28	1.05
2	....	2.15	....	1.24	1.53	18	1.44	1.49	1.24	1.49	.93
3	....	1.35	....	1.30	1.55	19	1.36	1.65	1.43	1.40	1.05
4	....	....	....	1.23	1.51	20	1.51	1.32	1.40	1.39	1.04
5	1.55	....	....	1.20	1.40	21	1.43	1.85	1.25	1.44	1.09
6	1.77	....	....	1.36	1.35	22	1.35	1.40	1.32	1.43	1.06
7	1.58	1.20	2.17	1.51	1.32	23	1.81	1.25	1.34	1.42	1.00
8	1.23	1.60	1.60	1.52	1.20	24	1.77	1.27	1.31	1.41	1.28
9	1.21	1.58	1.50	1.49	1.17	25	2.52	1.36	1.23	1.28	1.14
10	1.81	1.61	1.53	1.49	1.14	26	1.62	1.35	1.26	1.35	1.08
11	2.30	1.50	1.23	1.48	.99	27	1.61	1.10	1.27	1.28	.91
12	1.44	1.72	1.32	1.42	.91	28	1.43	....	1.19	1.26	.89
13	1.64	1.35	1.32	1.40	.88	29	1.32	....	1.10	1.27	.68
14	1.96	1.45	1.26	1.24	.63	30	1.24	....	1.10	1.58	.79
15	1.72	1.58	1.34	1.22	1.03	31	1.32	....	1.16	....	.82
16	1.53	1.55	1.26	1.04	1.09						

L101. City of Aberdeen. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 26, T. 14 S., R. 7 E. Drilled unused artesian well in Tuscaloosa group, diameter 6 inches, reported depth 400 feet. Land-surface datum is about 210 feet above msl. Records available: 1954. Mar. 5, +14.2; Aug. 4, +10.4.

O101. H. A. Craige. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 3, T. 15 S., R. 6 E. Drilled unused artesian well in Eutaw formation, diameter 4 inches, reported depth 450 feet. Land-surface datum is about 330 feet above msl. Highest water level 132.90 below lsd, Jan. 13, 1954; lowest 135.92 below lsd, Dec. 1, 1954. Records available: 1954. Jan. 13, 132.90; Aug. 4, 135.44; Dec. 1, 135.92.

Oktibbeha County

G102. Formerly 2. Mississippi State College. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 1, T. 18 N., R. 14 E. Unused artesian well in Eutaw formation, diameter 6 inches, depth 1,008 feet. Land-surface datum is 380.95 feet above msl. Highest water level 176.14 below lsd, Apr. 3, 1941; lowest 187.54 below lsd, Mar. 18, 1954. Records available: 1940-48, 1954.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	184.83	Aug. 5	165.18	Oct. 7	185.35	Dec. 1	184.93
Mar. 18	187.54	Sept. 7	185.17	Nov. 3	185.26	31	184.52
June 22	184.99						

Quitman County

G121. Formerly 21. W. R. Harrington. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 8, T. 27 N., R. 2 W. Drilled domestic artesian well in sands of Wilcox formation, diameter 2 $\frac{1}{2}$  inches, depth 1,589 feet, screen 1,536-1,577. Land-surface datum is about 165 feet above msl. Highest water level 38.1 above lsd, Dec. 26, 1941; lowest 15.6 above lsd, Oct. 15, 1953. Records available: 1939-54.

Apr. 18, 1948	+32.2	July 21, 1949	+32.3	Apr. 3, 1951	+32.6	Jan. 3, 1953	+26.5
July 28	31.8	Mar. 25, 1950	32.8	July 3	33.1	Apr. 2	24.8
Oct. 15	33.8	July 10	32.8	Mar. 31, 1952	32.2	Oct. 15	15.6
Jan. 2, 1949	34.8	Oct. 4	29.6	Sept. 30	29.2	Feb. 3, 1954	17.3
Mar. 31	34.8	Jan. 2, 1951	25.6				

j Leaking.

H132. Formerly 32. Lambert City Cafe. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, T. 27 N., R. 1 W. Drilled unused artesian well in Tallahatta formation, diameter 2 inches, depth 720 feet. Land-surface datum is 159.96 feet above msl. Highest water level 40 above lsd, 1911; lowest 4.75 above lsd, Oct. 4, 1951. Records available: 1911, 1938-52. Measurement discontinued.

Apr. 18, 1948	+5.74	July 21, 1949	+5.50	Jan. 9, 1951	+5.50	Dec. 31, 1951	+5.20
July 28	5.50	Mar. 25, 1950	6.02	Apr. 3	5.70	Mar. 31, 1952	5.50
Oct. 15	5.10	July 10	5.65	July 3	5.34	June 27	5.20
Jan. 3, 1949	5.92	Oct. 4	5.50	Oct. 4	4.75		

Sunflower County

H160. Formerly 39. E. L. Coleman. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 28, T. 21 N., R. 3 W. Drilled public-supply artesian well in Tallahatta formation, diameter 3 inches, depth 1,180 feet. Land-surface datum is 127.5 feet above msl. Highest water level 31.5 above lsd, July 27, 1940; lowest 19.0 above lsd, Sept. 21, 1954. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18, 1948	+23.8	July 9, 1950	+23.0	Dec. 31, 1951	+24.4	July 2, 1953	+22.4
July 30	23.6	Oct. 3	23.4	Mar. 30, 1952	23.2	Oct. 15	20.4
Oct. 15	24.4	Jan. 8, 1951	23.4	June 27	22.4	Feb. 2, 1954	20.6
Jan. 1, 1949	23.9	Apr. 2	23.4	Sept. 30	19.4	Mar. 30	20.4
July 20	22.8	July 3	22.8	Jan. 3, 1953	22.4	July 8	19.9
Mar. 24, 1950	22.4	Oct. 4	23.4	Apr. 2	22.8	Sept. 21	19.0

Tallahatchie County

C124. Formerly 24. Town of Tutwiler. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 25 N., R. 2 W. Drilled public-supply artesian well in Meridian sand member, diameter 2 inches, depth 1,180 feet. Land-surface datum is 155.64 feet above msl. Highest water level 40.0 above lsd, 1919; lowest 4.20 above lsd, June 27, 1952. Records available: 1919, 1938-50, 1952. Measurement discontinued.

Apr. 18, 1948	+6.50	Jan. 2, 1949	+6.00	July 21, 1950	+5.50	June 27, 1952	+4.20
July 28	6.90	Mar. 25, 1950	5.13	Mar. 30, 1952	+5.30	Sept. 30	+4.30
Oct. 15	5.40	July 9	4.70				

H168. Formerly 68. Town of Sumner. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 11, T. 24 N., R. 2 W. Drilled unused artesian well in sands of Wilcox formation, diameter 8 to 4 inches, depth 1,680 feet, screen 1,600-1,680. Land-surface datum is 153.3 feet above msl. Highest water level 65.5 above lsd, May 1, 1944; lowest 48.9 above lsd, Nov. 15, 1951. Records available: 1939-54.

Jan. 10, 1948	+55.7	June 6, 1949	+57.3	June 30, 1951	+57.3	Aug. 17, 1953	+56.0
Feb. 28	56.5	Aug. 26	56.1	July 21	60.0	Sept. 21	56.0
Mar. 16	56.5	Sept. 7	55.3	Nov. 15	48.9	Oct. 26	56.5
Apr. 14	57.3	Jan. 10, 1950	56.5	Dec. 8	54.9	Nov. 9	57.0
May 9	56.5	Feb. 28	55.7	Jan. 4, 1952	59.5	Dec. 2	56.5
June 14	57.7	Mar. 26	56.5	Apr. 9	58.0	Jan. 4, 1954	56.5
July 27	56.5	July 25	55.3	June 24	60.0	Feb. 8	59.0
Oct. 26	55.7	Aug. 27	54.9	July 1	60.5	Mar. 24	57.0
Nov. 1	56.1	Sept. 3	55.3	Aug. 7	60.0	Apr. 4	57.0
Dec. 13	57.3	Oct. 20	56.5	Sept. 17	60.0	May 3	54.0
Jan. 7, 1949	56.5	Nov. 23	56.5	Apr. 13, 1953	55.5	June 14	54.5
Feb. 5	56.5	Dec. 20	56.5	May 18	56.5	July 12	55.5
Mar. 20	56.1	Jan. 27, 1951	55.0	June 2	58.5	Sept. 22	52.0
Apr. 11	56.9	Feb. 8	64.0	July 20	56.5	Dec. 3	51.8
May 3	56.9	Mar. 6	61.7				

S1. Mrs. Morris Freeman. SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 11, T. 22 N., R. 1 E. Driven domestic water-table well in alluvium of Pleistocene age, diameter 1 $\frac{1}{2}$  inches, depth 32 feet. Land-surface datum is 138.77 feet above msl. Highest water level 12.58 below lsd, May 19, 1954; lowest 19.50 below lsd, Dec. 21, 1954. Records available: 1954.

Feb. 10	14.26	June 23	14.90	Sept. 21	18.08	Nov. 20	19.25
Mar. 6	13.71	July 22	15.90	Oct. 19	18.44	Dec. 21	19.50
May 19	12.58	Aug. 24	17.50				

S171. Formerly 171. Phillip Stave Mill Co. NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 21, T. 22 N., R. 1 E. Drilled industrial artesian well in Tallahatta formation, diameter 3 to 2 inches, depth 613 feet. Land-surface datum is 138.60 feet above msl. Highest water level 15.2 above lsd, Mar. 5, 1946; lowest 8.8 above lsd, Oct. 18, 1947. Records available: 1938-51. Aug. 3, 1948, +12.9; Oct. 16, +12.2; Jan. 1, 1949, +13.4; July 10, 1950, +12.9; Oct. 4, +13.0; Jan. 9, 1951, +13.6; Apr. 2, +14.1. Measurement discontinued.

Tunica County

D101. Jacks & Garrott. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 33, T. 4 S., R. 11 W. Drilled public-supply artesian well in sands of Wilcox formation, diameter 6 to 4 inches, depth 1,805 feet, screen 1,775-1,805. Land-surface datum is about 190 feet above msl. Highest water level 17.6 above lsd, Mar. 31, 1954; lowest 15.1 above lsd, Sept. 22, 1954. Records available: 1954. Mar. 31, +17.6; May 15, +15.2; July 8, +15.6; Sept. 22, +15.1.

G117. Formerly 17. G. D. Perry, Sr. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 7, T. 5 S., R. 11 W. Drilled domestic artesian well in sand of Wilcox formation, diameter 4 to 2 inches, depth 1,806 feet. Land-surface datum is 192.5 feet above msl. Highest water level 32.6 above lsd, Dec. 30, 1940; lowest 13.4 above lsd, Sept. 29, 1952. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18, 1948	+21.3	July 8, 1950	+17.4	Oct. 3, 1951	+17.0	Jan. 3, 1953	+13.7
July 28	19.1	Oct. 3	17.4	Dec. 29	17.2	Apr. 2	14.5
Oct. 15	18.9	Jan. 8, 1951	17.2	Mar. 30, 1952	17.2	July 2	14.0
Jan. 2, 1949	21.4	Apr. 2	17.0	June 26	14.7	Oct. 15	16.7
July 22	18.2	July 3	16.4	Sept. 29	13.4	July 8, 1954	16.1
Mar. 28, 1950	18.7						

J101. L. D. Powell. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 36, T. 6 S., R. 6 W. Drilled domestic artesian well in sand of Wilcox formation, diameter 3 to 2 inches, depth 1,796 feet, screen 1,766-1,796. Land-surface datum is about 176 feet above msl. Highest water level 30.3 above lsd, July 7, 1954; lowest 27.0 above lsd, Dec. 3, 1954. Records available: 1954. July 7, +30.3; Sept. 22, +27.8; Dec. 3, +27.0.

#### Washington County

F125. Formerly 25. Wagner Plantations. SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 10, T. 18 N., R. 6 W. Drilled domestic artesian well in Tallahatta formation, diameter 3 to 2 inches, depth 1,660 feet. Land-surface datum is 122.9 feet above msl. Highest water level 42.3 above lsd, May 15, 1939; lowest 23.00 above lsd, Dec. 13, 1944. Records available: 1939-48. Apr. 17, +32.71; Aug. 3, +24.16; Oct. 16, +29.75. Measurement discontinued.

H101. J. A. Aldridge. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, T. 17 N., R. 7 W. Drilled domestic artesian well in Meridian sand member, diameter 4 inches, depth 1,905 feet. Land-surface datum is about 120 feet above msl. Highest water level 53.5 above lsd, Dec. 20, 1954; lowest 50.1 above lsd, July 8, 1954. Records available: 1954. Feb. 2, +52.0; Mar. 31, +52.2; July 8, +50.1; Sept. 23, +51.9; Dec. 20, +53.5.

L165. Formerly 65. W. D. Atterbury. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 25, T. 16 N., R. 7 W. Drilled domestic artesian well in Meridian sand member, diameter 5 inches, depth 1,950 feet. Land-surface datum is 119.7 feet above msl. Highest water level 81.3 above lsd, Aug. 16, 1939; lowest 44.8 above lsd, July 1, 1953. Records available: 1939-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 17, 1948	+70.3	July 8, 1950	+68.0	Oct. 3, 1951	j47.4	Jan. 2, 1953	+50.4
Aug. 3	70.4	Oct. 2	67.0	Dec. 29	j46.8	Apr. 1	j47.6
Oct. 16	69.4	Jan. 1, 1951	65.4	Mar. 29, 1952	j49.4	July 1	j44.8
Jan. 1, 1949	67.4	Apr. 1	j48.4	June 26	56.4	Oct. 28	j45.8
July 20	70.4	July 2	j46.4	Sept. 29	50.4	Feb. 2, 1954	54.0
Mar. 24, 1950	70.4						

j Leaking.

P170. Formerly 70. Town of Hollandale. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 6, T. 15 N., R. 6 W. Drilled unused artesian well in Cockfield formation, diameter 6 inches, depth 361 feet, screen 331-361. Land-surface datum is 115.5 feet above msl. Highest water level 7.45 below lsd, Aug. 3, 1948; lowest 23.57 below lsd, Oct. 10, 1939. Records available: 1939-48. Apr. 17, 12.35; Aug. 3, 7.45. Measurement discontinued.

Q4. J. K. Greer. NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 15 N., R. 5 W. Drilled unused water-table well in alluvium of Pleistocene age, diameter 15 inches, depth 107 feet, screen 82-107. Land-surface datum is about 100 feet above msl. Highest water level 14.27 below lsd, May 27, 1954; lowest 28.26 below lsd, Sept. 5, 1954. Records available: 1954. Affected by nearby pumping for irrigation, June 7-Sept. 17.

Daily noon water level from recorder graph\*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.63	.....	24.75	25.87	28.03	h20.93	19.32	18.52
2	14.66	.....	25.25	25.93	27.78	20.86	h19.33	18.47
3	14.65	.....	24.82	25.65	27.79	20.83	19.21	18.43
4	14.47	.....	25.04	26.13	27.50	20.92	19.18	18.41
5	14.50	.....	25.45	26.17	28.11	20.92	19.17	18.42
6	14.49	.....	25.15	26.33	27.81	20.78	19.08	18.46
7	14.51	h22.62	.....	25.60	27.98	20.68	19.07	18.35
8	14.56	22.63	.....	26.12	26.95	20.62	19.05	18.31
9	14.55	.....	25.38	26.29	27.22	20.50	19.03	18.36
10	14.52	.....	25.10	26.54	27.74	20.42	19.00	18.33

## Q4--Continued.

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	14.48	.....	24.76	26.62	27.39	20.33	h18.98	18.27
12	14.33	.....	24.15	28.43	27.41	20.25	18.94	18.24
13	h14.37	.....	24.69	26.83	26.93	20.20	18.90	18.27
14	14.38	.....	23.95	26.88	27.54	20.13	18.87	18.20
15	14.39	h21.74	24.15	27.05	27.75	20.07	18.84	.....
16	14.36	22.64	h24.14	26.71	27.41	20.03	18.81	.....
17	14.34	22.65	24.43	27.48	27.43	19.97	18.79	.....
18	14.35	23.12	24.36	27.04	24.30	19.93	18.73	.....
19	14.31	23.13	24.26	26.98	23.39	19.86	18.73	.....
20	14.36	23.76	23.92	27.30	22.90	19.80	18.73	h18.15
21	h14.32	22.43	24.16	27.05	22.55	h19.77	18.66	18.12
22	14.32	23.00	24.98	27.52	22.22	19.76	18.70	18.11
23	14.32	23.68	25.08	27.28	21.95	19.71	18.63	18.10
24	14.31	22.06	25.13	27.65	21.74	19.66	18.68	18.11
25	14.30	23.25	24.93	27.62	21.54	19.62	18.65	18.07
26	14.30	23.30	25.40	27.74	21.36	19.58	18.60	18.06
27	14.29	23.38	25.42	28.07	21.22	19.53	18.59	18.03
28	.....	24.08	25.57	27.62	21.20	19.47	18.53	17.96
29	.....	h24.28	24.93	27.76	21.06	19.43	18.71	18.08
30	.....	24.62	25.14	27.78	20.98	19.38	18.57	.....
31	h14.41	.....	25.73	27.63	.....	19.37	.....	.....

\* No record for January, February, March, and April.

h Tape measurement.

S4. Agricultural Chemical Corp. SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 28, T. 14 N., R. 8 W. Drilled unused water-table well in alluvium of Pleistocene age, diameter 12 inches, depth 105 feet, screen 80-105. Land-surface datum is about 110 feet above msl. Highest water level 9.34 below lsd, May 16, 1954; lowest 19.45 below lsd, Aug. 21, 1954. Records available: 1954. Affected by nearby pumping for irrigation, May 6-Sept. 20.

## Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	12.02	11.95	11.25	17.32	19.27	18.76	14.63	15.08	14.64
2	.....	.....	.....	12.00	11.17	10.97	17.03	19.25	18.05	14.66	15.16	14.65
3	.....	.....	.....	12.00	10.52	10.81	17.06	19.28	18.76	14.71	15.15	14.65
4	.....	.....	.....	12.02	10.23	11.56	16.50	19.28	18.92	14.76	14.37	14.66
5	.....	.....	h11.21	12.07	10.08	12.05	.....	19.28	17.20	14.83	14.15	14.62
6	.....	.....	.....	12.06	10.00	12.35	.....	19.20	15.57	14.87	14.07	14.79
7	.....	.....	.....	12.08	12.55	13.75	.....	19.23	15.18	14.92	14.08	14.79
8	.....	.....	.....	12.19	12.88	15.35	.....	19.25	14.98	14.94	14.14	14.76
9	.....	.....	.....	12.21	12.98	14.55	h17.25	19.30	14.90	14.94	14.17	14.84
10	.....	.....	.....	12.21	13.07	15.70	15.39	19.15	16.44	14.94	14.23	14.87
11	.....	.....	.....	12.25	13.13	16.06	15.09	18.65	18.11	14.95	14.29	14.87
12	.....	.....	.....	12.28	10.25	16.36	15.17	19.25	18.58	14.83	14.33	14.72
13	.....	.....	.....	12.26	9.66	15.15	15.25	19.35	17.85	14.80	14.35	14.71
14	.....	.....	.....	12.25	9.41	16.30	16.58	19.04	16.45	14.73	14.38	14.70
15	.....	.....	.....	12.26	9.35	16.65	17.76	19.27	16.25	14.74	14.20	14.74
16	.....	.....	.....	12.24	9.34	16.73	18.45	19.35	15.73	14.78	13.99	14.75
17	.....	.....	.....	12.25	10.85	16.85	18.69	18.65	15.25	14.83	13.99	14.77
18	.....	.....	11.88	12.21	11.02	16.91	18.78	19.25	15.07	.....	14.00	14.80
19	.....	.....	11.86	.....	11.79	16.92	18.79	18.65	15.07	.....	14.07	14.87
20	.....	.....	11.98	.....	h11.71	16.98	18.78	19.35	15.87	.....	14.11	14.90
21	.....	.....	12.01	h12.20	13.05	16.45	18.77	19.43	15.27	h14.98	14.15	14.89
22	.....	.....	12.01	12.23	12.04	17.05	18.78	19.14	14.69	15.01	.....	14.90
23	.....	.....	12.02	12.26	10.60	17.08	18.86	19.02	14.52	15.06	14.37	14.91
24	.....	.....	12.04	12.29	11.85	16.20	18.97	19.35	14.45	15.08	14.39	14.95
25	h11.66	.....	12.08	12.31	12.96	17.10	18.99	18.94	14.44	15.10	14.44	14.98
26	.....	.....	12.15	12.35	12.45	17.15	19.05	18.91	14.45	15.12	14.47	14.99
27	.....	.....	12.02	12.39	13.15	17.15	19.08	17.55	14.46	15.08	14.45	15.00
28	.....	.....	11.95	12.41	13.25	15.65	19.16	16.21	14.52	15.01	14.41	15.07
29	.....	.....	11.91	12.47	13.33	17.05	19.18	15.99	14.55	15.02	14.57	14.63
30	.....	.....	11.92	12.47	12.55	17.23	19.16	16.62	14.59	15.04	14.64	14.63
31	.....	.....	11.97	.....	11.57	.....	19.25	18.47	.....	15.07	.....	14.59

h Tape measurement.

Wilkinson County

T101. Formerly 40. J. P. Kennedy. Formerly U. S. Army. Sec. 17, T. 1 N., R. 1 E. Drilled unused artesian well in sand of Pascagoula formation, diameter 16 inches, depth 222 feet, screen 162-222. Land-surface datum is 353.5 feet above msl. Highest water level 43.0 below lsd, May 1942; lowest 52.22 below lsd, Dec. 10, 1954. Records available: 1942, 1954. May 1942, 43.0; Mar. 16, 1954, 49.94; July 5, 49.78; Sept. 1, 48.84; Oct. 5, 49.08; Dec. 10, 52.22.

T102. Formerly 41. J. P. Kennedy. Formerly U. S. Army. Sec. 17, T. 1 N., R. 1 E. Drilled unused artesian well in middle sand of Pascagoula formation, diameter 12 inches, depth 417 feet, screen 355-415. Land-surface datum is 356.4 feet above msl. Highest water level 128.4 below lsd, May 5, 1942; lowest 141.06 below lsd, Dec. 10, 1954. Records available: 1942, 1954.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 5, 1942	128.4	July 5, 1954	138.42	Sept. 9, 1954	141.01	Nov. 2, 1954	141.00
Mar. 16, 1954	138.06	Sept. 1	139.53	Oct. 5	140.87	Dec. 10	141.06

T103. Formerly 42. J. P. Kennedy. Formerly U. S. Army. Sec. 17, T. 1 N., R. 1 E. Drilled unused artesian well in upper part of Catahoula sandstone, diameter 12 inches, depth 1,699 feet, screen 1,625-1,685. Land-surface datum is 356.4 feet above msl. Highest water level 238.1 below lsd, May 13, 1942; lowest 251.24 below lsd, Dec. 10, 1954. Records available: 1942, 1954. May 13, 1942, 238.1; Feb. 18, 1954, 249.93; Mar. 16, 250.13; July 5, 250.60; Sept. 1, 250.95; Oct. 5, 251.15; Dec. 10, 251.24.

Yazoo County

B1. Miss Josie Hollowell. SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 5, T. 13 N., R. 1 W. Driven domestic water-table well in alluvium of Pleistocene age, diameter 1 $\frac{1}{2}$  inches, depth 26 feet. Land-surface datum is about 105 feet above msl. Highest water level 11.17 below lsd, May 13, 1954; lowest 15.20 below lsd, Dec. 20, 1954. Records available: 1954.

Jan. 5	13.17	Apr. 30	12.13	June 22	12.18	Oct. 19	14.76
Feb. 3	12.44	May 3	11.53	29	12.38	Nov. 9	14.89
Mar. 5	12.16	13	11.17	July 21	13.01	20	14.89
24	12.07	19	11.20	Aug. 17	14.17	Dec. 20	15.20
Apr. 9	11.93	June 9	11.78	Sept. 21	14.79		

B102. Formerly 2. Town of Eden. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, T. 13 N., R. 1 W. Drilled municipal artesian well in Sparta sand, diameter 2 inches, depth 800 feet. Land-surface datum is 112.3 feet above msl. Highest water level 39.7 above lsd, 1919; lowest 9.0 above lsd, Oct. 29, 1953. Records available: 1919, 1939, 1943-54.

Apr. 17, 1948	+29.7	Mar. 23, 1950	+30.2	Oct. 5, 1951	+19.4	Jan. 2, 1953	+13.1
Aug. 4	29.2	July 9	29.7	Dec. 31	17.2	Mar. 31	11.9
Oct. 16	28.1	Oct. 3	28.3	Mar. 30, 1952	16.4	July 1	11.0
Jan. 1, 1949	29.1	Jan. 8, 1951	26.4	June 26	15.7	Oct. 29	9.0
Apr. 1	30.1	Apr. 2	29.1	Sept. 29	11.9	Mar. 30, 1954	10.6
July 19	29.1	July 3	24.4				

B103. Town of Eden. SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, T. 13 N., R. 1 W. Drilled public-supply artesian well in Meridian sand member, diameter 4 to 2 $\frac{1}{2}$  inches, depth 1,735 feet, screen 1,659-69, 1,689-99, 1,705-15. Land-surface datum is about 112 feet above msl. Highest water level 143.2 above lsd, Jan. 1954; lowest 138.1 above lsd, July 6, Sept. 23, 1954. Records available: 1954. Jan. +143.2, measured by driller; Mar. 30, +142.0; July 6, +138.1; Sept. 23, +138.1.

J128. Formerly 28a. Holly Bluff Consolidated School. SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, T. 11 N., R. 5 W. Drilled artesian well in Sparta sand, diameter 4 inches, depth 980 feet. Land-surface datum is about 103 feet above msl. Highest water level 38.7 above lsd, Aug. 17, 1939; lowest 17.8 above lsd, Dec. 20, 1954. Records available: 1939, 1954. Mar. 25, +18.7; July 6, +18.2; Dec. 20, +17.8.

## NORTH CAROLINA

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By H. E. LeGrand and Marjorie S. Reid

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### Scope of Water-Level Program

The observation-well program, begun in 1931, was continued in 1954 as a part of the investigation of ground-water resources in cooperation with the North Carolina Department of Conservation and Development. Measurements of water levels were made in 27 wells in 19 counties. The network includes 12 artesian wells and 15 water-table wells, 4 of which are equipped with recording gages. Figure 36 shows the location of observation wells in North Carolina.

### Precipitation

In 1954 the average precipitation at all Weather Bureau stations in the State was 42.38 inches, which was 6.75 inches below normal. For the months of June, July, August, and September, the average total rainfall was only 11.85 inches, 8.39 inches below normal. Below-average water levels occurred in the water-table wells during the late summer and autumn. The drought was preceded by normal winter precipitation.

### Interpretation of Water-Level Fluctuations

The Coastal Plain, representing the eastern two-fifths of the State, is one of two major ground-water provinces in North Carolina. It is underlain by beds of unconsolidated and semi-consolidated sands, clays, and limestones that dip gently toward the coast. The dips of the beds on the Coastal Plain are slightly greater than the slope of the land surface, so that artesian water occurs in the sands and limestones that are buried beneath surficial sands and clays. Some of the observation wells penetrate these artesian aquifers and others penetrate surficial sands in which water-table conditions exist. The other major ground-water province represents the Piedmont and Mountain sections, occupying the western three-fifths of the State. It is underlain by various igneous and metamorphic rocks. Ground water occurs in the clayey weathered rock that mantles the surface almost everywhere and in the fractures in the underlying bedrock. Although water occurs in two contrasting types of material, it is under water-table conditions in both cases. All the observation wells in the Piedmont and Mountain provinces end in the clayey weathered material.

In North Carolina a relationship exists between water levels and precipitation, but this relationship is not a simple one because factors other than precipitation affect the water levels. Most of the wells are far removed from pumping wells; consequently, the changes in their water levels are due to natural causes. It should be emphasized that withdrawal of ground water has had no widespread effect on the regional water levels. This may be attributed either to the low water-yielding capacity of some of the deposits or to the great dispersion in population and consequent small withdrawal of water, or to a combination of these factors. The water levels measured are chiefly those of the water table, but some represent the piezometric surface expressing the artesian water level. Water-table wells in the Coastal Plain generally respond much more quickly to rainfall than do wells in the Piedmont because the water table is generally closer to the surface and the surficial deposits are more permeable.

When precipitation is normal, the cycle of water-table fluctuations begins with a gradual rise, usually starting in December or January. The level generally continues to rise until April or May after which it begins to decline. The decline continues, interrupted only by rises of short duration caused by summer rainstorms, until the following December or January. The water table rises in late winter or spring because very little water is lost by evaporation or is used by vegetation; thus, a relatively large part of the precipitation reaches the water table. Although the amount of rainfall is larger during the summer months, little or no rainfall reaches the water table because the amount used by vegetation and evaporation is large. The range in the water level in the artesian aquifers is generally slight, except near areas of recharge and near areas where water is pumped from the same aquifer. For example, Hertford County well 13 is at a distance from pumping and from recharge to the aquifer which it penetrates; consequently, it expresses a water level which fluctuated only 0.53 foot in 1954 and which has had a fluctuating range of only 4.21 feet since 1947. Water levels were below normal before the 1954 drought

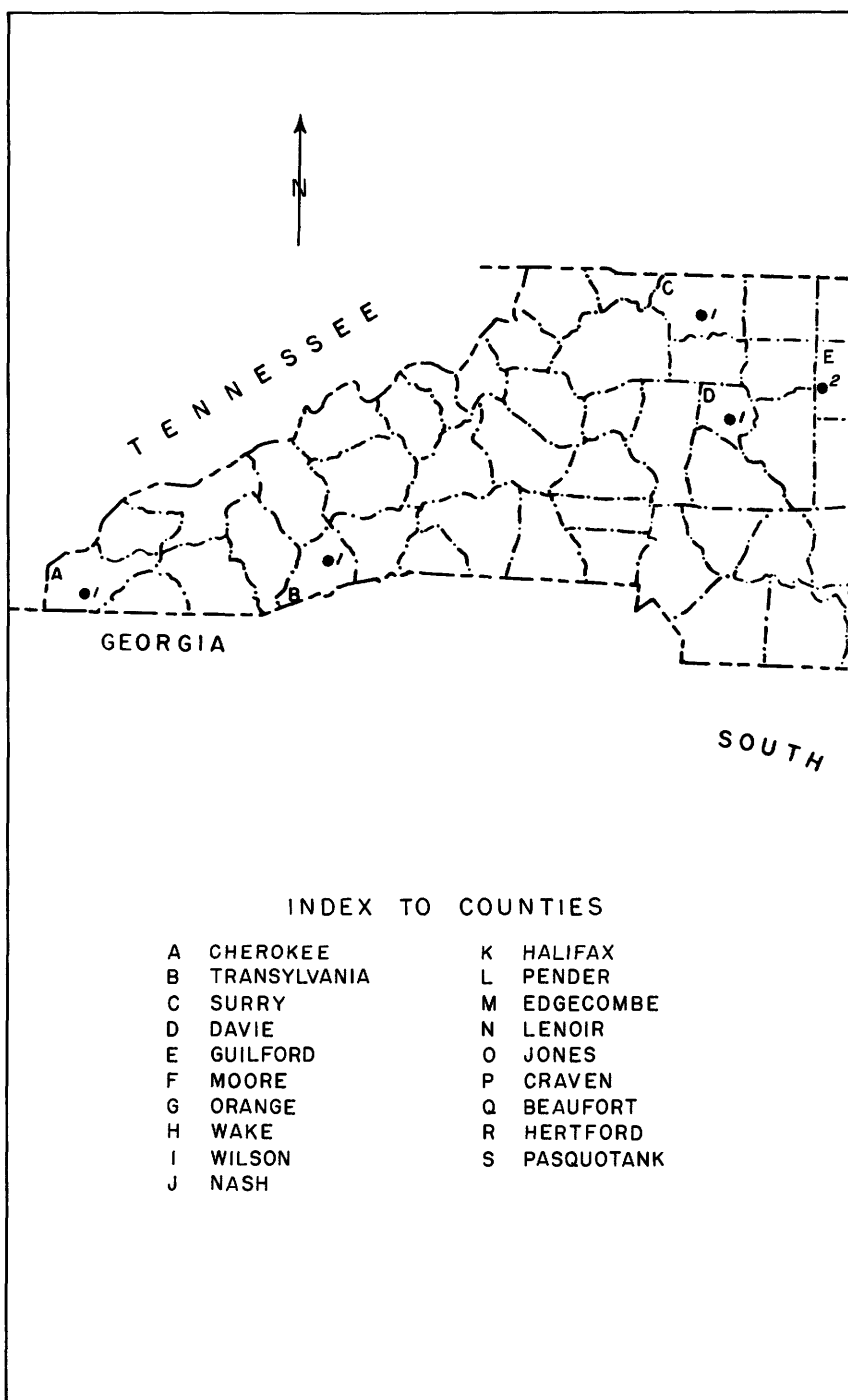
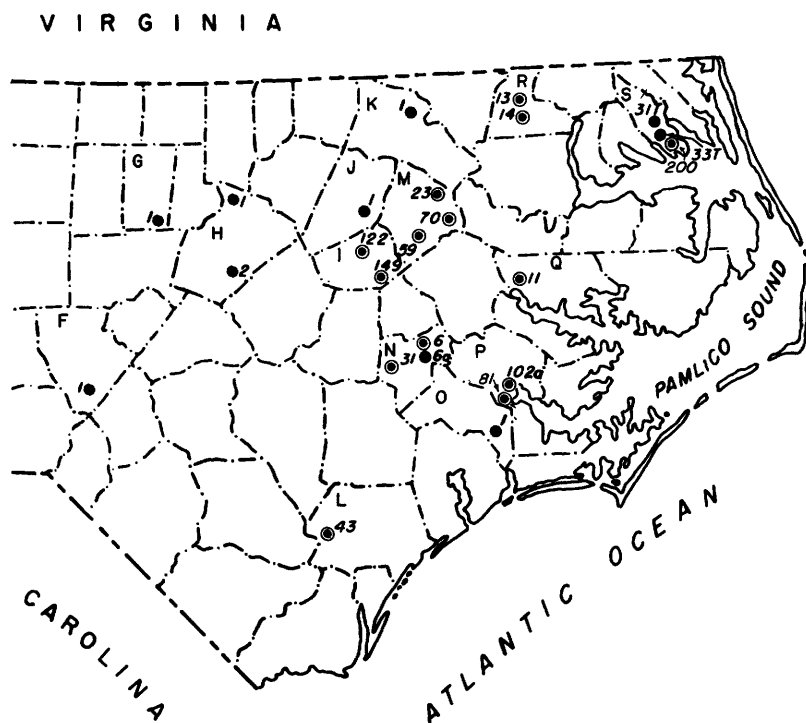


Figure 36. --Location of observation





## EXPLANATION

●  
Observation well, water-table conditions

⊙  
Observation well, artesian conditions

0 25 50 75 100 MILES

because of the drought during the summer of 1953. Consequently, in 11 of 12 water-table wells that were measured frequently, the water level was lower in December 1954 than in December 1952.

### Well-Numbering System

The wells are numbered by counties, although the numbers are not related to any system of location within the counties.

### Well Descriptions and Water-Level Measurements

( Water levels are in feet below land-surface datum unless otherwise indicated. )

#### Beaufort County

11. City of Washington. Lat. 35°32', long. 77°04'. Drilled unused artesian well in sand, diameter 8 inches, depth 129 feet, gravel-walled. Highest water level 6.52 below lsd, Aug. 30, 1950; lowest 10.83 below lsd, Aug. 27, 1948. Records available: 1948-54. Mar. 2, 6.70; June 22, 7.10; July 22, 8.72; Nov. 16, 9.90.

#### Cherokee County

1. Elliott. First Baptist Church, Murphy. Lat. 35°06', long. 84°02'. Dug unused water-table well in weathered mica schist, diameter 4 feet, depth 51 feet, cribbed with brick. Highest water level 37.79 below lsd, Apr. 13, 1950; lowest 43.45 below lsd, Jan. 13-14, 1954. Records available: 1943-54.

Daily water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.36	41.93	41.60	40.72	40.13	40.09	39.98	40.33	40.86	41.65	42.36	43.04
2	43.37	41.90	41.61	40.68	40.13	40.01	39.99	40.33	40.90	41.67	42.38	43.05
3	43.39	41.86	41.59	40.64	40.11	40.02	40.00	40.35	40.93	41.69	42.41	43.06
4	43.39	41.84	41.59	40.59	40.10	40.01	39.99	40.38	40.96	41.70	42.43	43.07
5	43.39	41.82	41.59	40.56	40.10	40.03	39.99	40.40	40.98	41.72	42.45	43.08
6	43.40	41.81	41.57	40.53	40.10	40.05	40.00	40.40	41.00	41.74	42.47	43.08
7	43.41	41.81	41.56	40.48	40.10	40.05	40.00	40.41	41.02	41.77	42.50	43.10
8	43.42	41.80	41.53	40.44	40.10	40.03	40.01	40.43	41.03	41.82	42.53	43.12
9	43.42	41.78	41.50	40.43	40.10	40.02	40.03	40.43	41.05	41.83	42.56	43.12
10	43.42	41.76	41.48	40.41	40.11	40.01	40.05	40.45	41.07	41.84	42.59	43.14
11	43.41	41.74	41.46	40.39	40.11	40.00	40.07	40.48	41.09	41.85	42.61	43.17
12	43.43	41.76	41.45	40.36	40.10	40.00	40.08	40.50	41.13	41.87	42.64	43.18
13	43.45	41.77	41.43	40.33	40.09	40.00	40.10	40.52	41.18	41.90	42.66	43.18
14	43.45	41.77	41.35	40.30	40.08	39.99	40.10	40.55	41.21	41.92	42.67	43.19
15	43.40	41.75	41.35	40.27	40.10	39.98	40.11	40.56	41.23	41.93	42.68	43.20
16	42.98	41.73	41.36	40.22	40.10	39.97	40.12	40.57	41.25	41.95	42.70	43.22
17	42.83	41.78	41.35	40.21	40.10	39.97	40.14	40.58	41.28	42.00	42.72	43.24
18	42.87	41.78	41.30	40.22	40.09	39.98	40.15	40.60	41.30	42.04	42.74	43.23
19	42.87	41.71	41.26	40.22	40.08	39.98	40.16	40.62	41.31	42.07	42.76	43.23
20	42.84	41.70	41.21	40.22	40.08	39.97	40.17	40.63	41.33	42.08	42.77	43.24
21	42.62	41.69	41.20	40.21	40.10	39.97	40.16	40.66	41.35	42.10	42.80	43.25
22	42.29	41.69	41.19	40.20	40.12	39.96	40.17	40.70	41.40	42.13	42.83	43.25
23	42.12	41.69	41.17	40.18	40.13	39.96	40.18	40.73	41.43	42.17	42.85	43.26
24	42.14	41.65	41.13	40.17	40.13	39.96	40.20	40.74	41.47	42.19	42.87	43.27
25	42.16	41.64	41.07	40.16	40.12	39.96	40.21	40.74	41.49	42.20	42.90	43.29
26	42.13	41.62	41.02	40.15	40.12	39.96	40.24	40.73	41.50	42.22	42.93	43.30
27	42.08	41.62	40.98	40.12	40.11	39.95	40.25	40.75	41.52	42.23	42.95	43.30
28	42.05	41.61	40.92	40.10	40.10	39.95	40.27	40.78	41.55	42.25	42.96	43.30
29	42.01		40.87	40.11	40.10	39.96	40.29	40.80	41.58	42.27	42.98	43.27
30	41.98		40.79	40.12	40.10	39.97	40.30	40.80	41.61	42.29	43.01	43.21
31	41.96		40.75		40.11		40.32	40.82		42.32		43.24

#### Craven County

81. City of New Bern. Lat. 35°07', long. 77°03'. Drilled unused artesian well in Trent marl, diameter 8 inches, depth 120 feet, cased to 35. Highest water level 9.35 below lsd, July 28, 1950; lowest 12.08 below lsd, Nov. 29, 1950. Records available: 1947-53. Measurement discontinued.

102a. City of New Bern. Lat. 35°07', long. 77°04'. Drilled observation artesian well in Trent marl, diameter 4 inches, depth 38 feet, cased to 38. Highest water level 6.91 below lsd, July 28, 1950; lowest 18.00 below lsd, Sept. 4, 1952. Records available: 1947-54. Mar. 23, 14.07; June 7, 15.18; Nov. 13, 16.14; Dec. 14, 15.09.

Davie County

1. Kurfee. Mocksville. Lat. 35°53', long. 80°34'. Dug unused water-table well in weathered granite, diameter 36 inches, depth 32 feet, lined with rock. Highest water level 15.19 below lsd, May 13, 1948; lowest 28.66 below lsd, Feb. 15, 1942. Records available: 1932-54.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.47	22.95	21.71	19.76	19.88	20.69	21.70	23.01	24.30	25.48	.....	.....
2	25.47	22.83	.....	19.76	19.87	20.68	21.74	23.04	24.34	25.52	.....	.....
3	25.47	22.73	.....	19.66	19.86	20.71	21.76	23.08	24.37	25.56	.....	.....
4	25.47	22.69	.....	19.65	19.89	20.76	21.79	23.20	24.41	25.60	26.33	.....
5	25.47	22.66	21.65	19.63	19.93	20.84	21.82	23.30	24.45	25.64	26.33	.....
6	25.47	22.64	21.60	19.57	19.96	20.90	21.87	23.34	24.49	25.69	26.36	.....
7	25.52	22.63	21.56	19.54	19.99	20.91	21.91	23.40	24.52	25.73	26.41	.....
8	25.52	22.58	21.51	19.53	20.03	20.93	21.95	23.45	24.55	25.76	26.43	.....
9	25.54	22.52	21.48	19.60	20.07	20.97	22.01	23.48	24.58	25.80	26.45	.....
10	25.55	22.51	21.43	19.61	20.12	20.99	22.06	23.51	24.62	25.83	26.47	.....
11	25.57	22.49	21.42	19.56	20.15	21.02	22.10	23.55	24.65	25.87	26.49	.....
12	25.59	22.52	21.43	19.54	20.16	21.07	22.14	23.59	24.70	25.91	26.51	.....
13	25.62	22.55	21.41	19.57	20.21	21.11	22.18	23.63	24.75	25.95	26.54	25.26
14	25.63	22.53	20.57	19.54	20.18	21.15	22.22	23.67	24.78	25.99	26.55	24.50
15	25.52	22.49	20.87	19.53	20.22	21.18	22.26	23.70	24.82	24.16	26.58	25.20
16	23.34	22.48	20.91	19.52	20.24	21.12	22.31	23.73	24.85	23.86	26.57	25.40
17	23.89	22.44	20.88	19.48	20.24	20.95	22.37	23.56	24.89	.....	26.56	25.51
18	24.56	22.46	20.78	19.58	20.26	21.18	22.42	23.68	24.93	.....	.....	25.53
19	24.89	22.47	20.50	19.62	20.29	21.26	22.45	23.78	24.96	.....	.....	25.52
20	25.00	22.46	20.16	19.67	20.31	21.30	22.49	23.86	25.00	.....	.....	25.49
21	22.93	22.13	20.30	19.66	20.38	21.33	22.53	23.91	25.04	.....	.....	25.44
22	20.23	22.11	20.33	19.64	20.41	21.36	22.56	23.96	25.09	.....	26.61	25.39
23	21.71	22.03	20.24	19.63	20.45	21.39	22.62	24.00	25.13	.....	.....	25.33
24	22.88	21.97	20.22	19.65	20.46	21.44	22.67	24.03	25.18	.....	.....	25.27
25	23.20	21.94	20.16	19.67	20.47	21.49	22.72	24.05	25.22	.....	.....	25.24
26	23.16	21.85	20.12	19.68	20.51	21.51	22.76	24.08	25.26	.....	.....	25.20
27	23.30	21.80	20.12	19.67	20.54	21.53	22.82	24.12	25.29	26.12	.....	25.16
28	23.31	21.73	20.10	19.68	20.55	21.59	22.84	24.12	25.34	.....	.....	25.12
29	23.23	.....	20.07	19.78	20.57	21.63	22.88	24.11	25.39	.....	.....	25.06
30	23.08	.....	20.00	19.86	20.63	21.66	22.93	24.19	25.43	.....	.....	25.02
31	23.02	.....	19.86	.....	20.69	.....	22.98	24.24	.....	.....	.....	25.01

Edgecombe County

23. John Lane. Speed. Lat. 35°58', long. 77°27'. Drilled domestic artesian well in sand of Tuscaloosa(?) formation, diameter 4 inches, depth 100 feet, cased to 100. Highest water level 1.70 below lsd, July 27, 1950; lowest 12.18 below lsd, June 11, 1953. Records available: 1946-54. Mar. 1, 5.23; May 19, 3.64; June 23, 3.95; Nov. 16, 7.11.

59. I. W. Calhoun. Lat. 35°56', long. 77°39'. Drilled unused artesian well in sand of Tuscaloosa(?) formation, diameter 4 inches, depth 164 feet, cased to 164. Highest water level 27.98 below lsd, July 2, 1949; lowest 30.37 below lsd, Sept. 25, 1951. Records available: 1946-54. Mar. 1, 29.41; May 19, 29.53; June 23, 29.69. Measurement discontinued.

70. W. Z. Wilson. Coakley. Lat. 35°55', long. 77°25'. Drilled unused artesian well in sand of Tuscaloosa(?) formation, diameter 4 inches, depth 73 feet. Highest water level 37.95 below lsd, July 27, 1950; lowest 41.32 below lsd, Nov. 29, 1949. Records available: 1946-54. Mar. 1, 39.98; May 19, 38.30; June 23, 38.20; Nov. 16, 39.20.

Guilford County

2. Lindale Dairy. High Point. Lat. 35°59', long. 79°58'. Dug unused water-table well in weathered granite, diameter 18 inches, depth 39 feet, lined with tile. Highest water level 23.92 below lsd, Mar. 5, 1937; lowest 30.06 below lsd, Feb. 13, 1942. Records available: 1934-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	27.99	May 1	26.25	July 27	27.04	Oct. 30	28.14
Feb. 2	27.79	30	26.25	Aug. 28	27.38	Nov. 27	28.20
27	27.64	June 27	26.48	Oct. 2	27.89	Dec. 24	27.53
Mar. 27	27.10						

Halifax County

1. Freuler. Roanoke Rapids. Lat. 36°26', long. 77°40'. Dug unused water-table well in terrace sand and gravel, diameter 30 inches, depth 15 feet, lined with terra cotta. Highest water level 1.23 below lsd, Aug. 30, 1939; lowest 10.77 below lsd, Jan. 26, 1942. Records available: 1932-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.08	Apr. 2	5.08	May 3	6.15	June 1	4.85
Feb. 2	4.70	20	5.85	17	5.67	10	5.55
Mar. 1	5.34						

Hertford County

13. Town of Winton. Lat. 36°24', long. 76°56'. Drilled unused artesian well in sand, diameter 8 inches, depth 314 feet, gravel-walled. Highest water level 26.84 below lsd, Apr. 21, 1952; lowest 31.05 below lsd, Feb. 28, 1947. Records available: 1947-54. Mar. 1, 27.15; May 19, 26.99; June 23, 27.10; July 22, 27.11; Nov. 16, 27.52; Dec. 1, 27.50.

14. Town of Winton. Lat. 36°24', long. 76°56'. Drilled unused artesian well in sand of Cretaceous(?) and Eocene age, diameter 24 inches, 8-inch casing, depth 260 feet, gravel-walled. Highest water level 26.10 below lsd, Nov. 29, 1949; lowest water level 28.30 below lsd, May 15, 1946. Records available: 1946-54. Mar. 1, 26.60.

Jones County

1. George E. Weeks. Maysville. Lat. 34°54', long. 77°14'. Dug unused water-table well in terrace sands, diameter 36 inches, depth 9 feet, cribbed with wood. Highest water level 0.4 below lsd, Jan. 27, 1954; lowest water level 9.3 below lsd, Oct. 27-Dec. 1, 1954. Records available: 1941-54.

Jan. 6	1.7	Apr. 7	2.7	July 6	8.8	Oct. 7	8.6
13	1.4	14	2.6	14	8.6	13	9.1
20	1.5	21	5.5	23	7.0	20	9.2
27	.4	29	6.4	27	7.0	27	9.3
Feb. 3	2.5	May 5	7.1	Aug. 4	7.1	Nov. 3	9.3
10	3.7	12	7.4	10	7.8	10	9.3
17	4.8	19	6.8	18	8.5	17	9.3
23	4.8	26	6.7	25	8.7	Dec. 1	9.3
Mar. 2	2.8	June 2	7.3	Sept. 1	7.5	9	7.4
11	4.1	8	7.7	8	8.0	15	8.0
17	5.1	16	7.7	15	8.0	23	5.1
24	6.1	26	8.5	22	8.1	29	7.0
31	4.6	July 1	8.7	29	8.5		

Lenoir County

6. Ernest L. Johnson. Lat. 35°20', long. 77°36'. Drilled observation artesian well in Peedee(?) formation, diameter 4 inches, depth 84 feet, cased to 82. Highest water level 8.45 below lsd, Dec. 31, 1948; lowest 16.59 below lsd, Dec. 14, 1954. Records available: 1947-54. Dec. 14, 16.59.

6a. Ernest L. Johnson. Lat. 35°20', long. 77°36'. Dug domestic water-table well in terrace sands, diameter 24 inches, depth 12 feet, lined with tile. Highest water level 5.19 below lsd, July 28, 1950; lowest 10.07 below lsd, Dec. 14, 1954. Records available: 1947-54. Dec. 14, 10.07.

31. Town of Kinston. Lat. 35°16', long. 77°37'. Drilled unused artesian well in Black Creek formation, diameter 1½ inches, depth 300 feet. Highest water level 3.96 above lsd, Feb. 26, 1948; lowest 2.48 below lsd, Aug. 10, 1954. Records available: 1947-54. Mar. 23, 1.16; Apr. 1, 1.14; May 7, 1.16; June 7, 1.23; Aug. 10, 2.48; Nov. 16, 0.96; Dec. 14, 1.37.

Moore County

1. Pure Oil Station. Pinebluff. Lat. 35°06', long. 79°28'. Dug unused water-table well in Tuscaloosa(?) formation, diameter 24 inches, depth 47 feet, cribbed with brick. Highest water level 31.87 below lsd, Jan. 23, 1954; lowest dry several times, 1951-52. Records available: 1944-54.

1--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.81	33.79	38.05	32.48	36.02	40.88	43.64	44.87	45.73	46.48	37.42	42.98
2	40.66	33.84	37.99	32.74	36.30	41.02	43.71	44.89	45.76	46.50	37.69	43.08
3	40.44	33.90	37.28	33.03	36.54	41.16	43.76	44.91	45.79	46.52	37.95	43.18
4	40.30	34.00	36.76	33.29	36.78	41.29	43.81	44.94	45.83	46.54	38.18	43.28
5	40.23	34.10	36.48	33.44	37.02	41.43	43.87	44.97	45.86	46.56	38.40	43.38
6	40.21	34.21	36.32	33.56	37.23	41.56	43.92	44.99	45.89	46.58	38.60	43.46
7	40.22	34.33	36.24	33.65	37.40	41.69	43.97	45.02	45.92	46.61	38.80	42.42
8	40.28	34.44	36.22	33.72	37.56	41.82	44.04	45.05	45.94	46.64	38.98	41.15
9	40.35	34.55	36.23	33.84	37.74	41.92	44.10	45.08	45.97	46.66	39.17	40.40
10	40.43	34.70	36.27	33.90	37.90	42.06	44.14	45.11	45.99	46.67	39.39	40.06
11	40.51	34.87	36.35	33.93	38.06	42.16	44.19	45.13	46.01	46.68	39.62	39.91
12	40.61	35.07	36.46	34.00	38.21	42.27	44.24	45.16	46.03	46.69	39.86	39.90
13	40.73	35.32	36.58	34.08	38.35	42.36	44.29	45.20	46.07	46.75	40.08	39.92
14	40.84	35.55	36.69	34.14	38.47	42.46	44.34	45.23	46.09	46.76	40.30	39.98
15	40.94	35.76	36.82	34.19	38.58	42.55	44.37	45.26	46.12	40.41	40.51	40.08
16	37.90	36.00	36.80	34.21	38.59	42.63	44.42	45.28	46.14	32.66	40.71	40.23
17	32.45	36.21	36.63	34.26	38.80	42.71	44.46	45.31	46.16	33.15	40.91	40.27
18	32.88	36.43	36.52	34.36	38.91	42.78	44.49	45.34	46.18	33.46	41.09	40.08
19	33.12	36.66	36.49	34.18	39.02	42.86	44.53	45.37	46.20	33.70	41.25	39.95
20	33.33	36.84	36.48	34.09	39.13	42.93	44.56	45.40	46.22	33.91	41.40	39.91
21	33.49	37.04	36.54	34.13	39.25	42.99	44.59	45.42	46.24	34.09	41.56	39.92
22	32.73	37.22	36.62	34.22	39.38	43.06	44.61	45.46	46.26	34.32	41.73	39.97
23	31.87	37.39	36.62	34.34	39.53	43.12	44.64	45.49	46.29	34.58	41.88	40.06
24	32.37	37.56	36.61	34.48	39.68	43.19	44.67	45.52	46.31	34.86	42.02	40.16
25	32.72	37.72	36.61	34.65	39.82	43.26	44.70	45.54	46.34	35.17	42.17	40.30
26	32.97	37.85	36.63	34.83	39.98	43.32	44.73	45.57	46.36	35.50	42.33	40.45
27	33.13	37.95	36.69	35.03	40.16	43.38	44.76	45.60	46.37	35.84	42.47	40.60
28	33.34	38.01	36.75	35.25	40.30	43.44	44.77	45.62	46.40	36.18	42.60	40.75
29	33.51		36.50	35.50	40.44	43.51	44.78	45.64	46.42	36.48	42.73	40.88
30	33.60		35.48	35.78	40.59	43.57	44.81	45.68	46.45	36.80	42.87	41.04
31	33.71		34.47		40.74		44.84	45.70		37.11		41.78

Nash County

1. Linzey Alston. Lat. 35°52', long. 77°56'. Dug observation water-table well in sands and gravels, diameter 30 inches, depth 25 feet, lined with tile. Highest water level 0.50 below lsd, Jan. 19, 1946; lowest 16.01 below lsd, Feb. 3, 1934. Records available: 1932-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	10.55	Apr. 3	4.36	July 3	10.12	Oct. 2	13.71
9	11.03	10	2.25	10	10.72	10	13.71
17	9.72	17	3.30	17	11.22	16	13.72
23	6.02	24	4.88	24	11.55	23	13.73
30	1.93	May 2	6.45	31	12.10	30	13.73
Feb. 6	3.47	8	7.60	Aug. 7	12.18	Nov. 6	13.73
13	5.49	15	7.72	14	12.47	13	13.74
20	6.43	22	5.00	21	12.72	20	13.74
27	6.66	29	5.75	28	13.00	27	13.73
Mar. 6	6.27	June 5	7.72	Sept. 4	13.27	Dec. 4	13.72
13	7.14	12	8.22	11	13.40	11	13.74
20	7.61	19	8.98	18	13.68	19	13.66
27	8.10	26	9.57	25	13.70	25	13.74

Orange County

1. McCauley. Chapel Hill. Lat. 35°55', long. 79°04'. Dug unused water-table well in granite, diameter 36 inches, depth 48 feet, lined with rock. Highest water level 38.48 below lsd, Mar. 29, 1946; lowest 46.41 below lsd, Jan. 21, 1952. Records available: 1938-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	44.95	Mar. 8	43.63	May 10	42.86	July 19	44.49
11	44.99	15	43.52	17	42.76	26	43.66
18	44.77	22	43.47	24	42.78	Aug. 2	43.79
25	44.38	29	43.34	31	42.81	9	43.94
Feb. 1	44.08	Apr. 5	43.22	June 14	42.86	16	44.16
8	43.88	12	43.11	21	42.97	30	44.51
15	43.87	20	43.04	28	43.07	Sept. 6	44.72
22	43.76	26	42.92	July 5	43.18	13	44.93
Mar. 1	43.66	May 3	42.84	12	43.36	20	45.09

## 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 27	45.27	Oct. 18	45.72	Nov. 15	46.21	Nov. 29	46.38
Oct. 4	45.44	25	45.87	22	46.30	Dec. 6	48.40
11	45.56	Nov. 1	45.98				

Pasquotank County

31T. Elizabeth City. Lat. 36°18', long. 76°17'. Dug unused water-table well in sands of Pleistocene age, diameter 18 inches, depth 8 feet, lined with tile. Highest water level 0.05 below lsd, Nov. 1, 1949; lowest 8.00 below lsd, Dec. 21, 1943. Records available: 1935-54.

Jan. 6	1.05	May 12	2.39	July 28	5.81	Oct. 13	6.69
Mar. 1	.64	19	.78	Aug. 4	5.56	20	6.81
10	1.49	26	1.75	11	5.84	27	6.95
17	2.07	June 3	2.31	18	6.04	Nov. 3	6.96
24	2.62	9	3.28	25	6.16	10	7.11
31	1.61	16	4.28	Sept. 2	6.13	17	7.12
Apr. 7	1.95	23	4.77	8	6.34	Dec. 1	7.42
14	1.86	30	5.18	15	6.25	7	7.51
21	2.61	July 7	5.38	22	6.39	15	7.62
28	.74	14	5.58	29	6.45	22	7.59
May 5	1.89	21	5.69	Oct. 6	6.56	29	7.62

33T. Elizabeth City. Lat. 38°18', long. 76°15'. Drilled observation water-table well in sand, diameter 6 inches, depth 20 feet. Highest water level 1.38 below lsd, Mar. 31, 1946; lowest 17.03 below lsd, Oct. 28, 1942. Records available: 1938-51, 1953-54. May 15, 4.18.

200. Elizabeth City. Water plant. Lat. 36°18', long. 76°13'. Drilled unused artesian well in sand, diameter 8 inches, depth 75 feet. Highest water level 14.19 below lsd, Sept. 25, 1951; lowest 35.60 below lsd, July 26, 1946. Records available: 1946-53. Measurement discontinued.

Pender County

43. Rooks Colored Church. Near Currie. Lat. 34°29', long. 78°04'. Drilled artesian well in Peedee formation, diameter 3 inches, depth 140 feet, cased to 135. Highest water level 3.59 below lsd, Mar. 10, 1954; lowest 8.06 below lsd, Aug. 24, 1954. Records available: 1954. Mar. 10, 3.59; July 13, 5.43; Aug. 24, 8.06; Dec. 30, 5.68.

Surry County

1. A. D. Terrell. Lat. 36°20', long. 80°43'. Dug domestic water-table well in weathered granite, diameter 5 feet, depth 55 feet, cribbed with rock. Highest water level 39.10 below lsd, Sept. 7, 1949; lowest 48.88 below lsd, Feb. 28, 1942. Records available: 1938-47, 1949-54.

Jan. 5	46.29	Apr. 4	47.09	June 28	47.61	Oct. 10	47.48
19	46.39	17	47.26	July 6	47.59	24	47.52
22	45.64	26	47.36	15	47.55	31	47.58
Feb. 6	48.60	May 5	47.46	26	47.46	Nov. 12	47.87
14	46.73	18	47.50	Aug. 13	47.41	13	47.71
23	46.14	31	47.54	21	47.39	28	47.81
Mar. 15	46.79	June 3	47.56	Sept. 5	47.36	Dec. 5	47.85
25	46.93	13	47.61	21	47.36	19	47.91
31	47.05	17	47.60	29	47.40	26	48.02

Transylvania County

1. C. F. Baldwin. Blantyre. Lat. 35°17', long. 82°38'. Dug unused water-table well in granite, diameter 5 feet, depth 41 feet, lined with rock. Highest water level 27.65 below lsd, May 28, 1946; lowest 41.32 below lsd, Dec. 25-27, 1954. Records available: 1932-54. Well was deepened to 50 feet, Nov. 16, 1954.

## Daily mean water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.52	37.32	35.90	34.50	33.14	32.32	32.70	34.40	36.53	.....	(f)	40.95
2	38.48	37.28	35.87	34.46	33.08	32.30	32.74	34.43	36.59	.....	(f)	40.97
3	38.46	37.23	35.82	34.41	33.04	32.29	32.78	34.50	36.67	.....	(f)	40.99
4	38.44	37.19	35.76	34.35	33.01	32.29	32.81	34.59	36.75	38.83	(f)	41.02
5	38.40	37.15	35.72	34.30	32.96	32.29	32.85	34.65	36.80	38.87	(f)	41.02

## 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	38.38	37.10	35.68	34.27	32.92	32.29	32.89	34.71	36.88	.....	(f)	41.06
7	38.35	37.05	35.64	34.22	32.88	32.29	32.92	34.80	36.94	38.98	(f)	41.08
8	38.33	37.01	35.59	34.16	32.85	32.28	32.97	34.86	37.01	.....	(f)	41.09
9	38.29	36.95	35.54	34.12	32.83	32.28	33.02	34.92	37.12	39.05	(f)	41.08
10	38.26	36.93	35.46	34.07	32.80	32.29	33.07	34.99	37.21	39.08	(f)	41.11
11	38.23	36.89	35.40	34.02	32.75	32.29	33.14	35.05	37.25	39.12	(f)	41.14
12	38.21	36.82	35.36	33.97	32.71	32.29	33.19	35.11	37.34	39.16	(f)	41.14
13	38.19	36.74	35.26	33.94	32.69	32.30	33.25	35.16	37.43	39.19	(f)	41.13
14	38.15	36.68	35.25	33.87	32.66	32.30	33.29	35.22	37.49	39.25	(f)	41.15
15	38.12	36.63	35.24	33.81	32.64	32.31	33.35	35.32	37.53	.....	(f)	41.17
16	38.03	36.58	35.21	33.76	32.61	32.32	33.41	35.38	37.62	f39.29	(f)	41.22
17	38.02	36.54	35.18	33.74	32.58	32.34	33.46	35.48	37.70	f39.29	.....	41.20
18	37.99	36.49	35.12	33.69	32.54	32.36	33.53	35.58	37.74	(f)	.....	41.23
19	37.98	36.44	35.07	33.65	32.52	32.37	33.58	35.61	37.85	(f)	.....	41.24
20	37.92	36.36	35.02	33.61	32.50	32.38	33.65	35.67	37.89	(f)	.....	41.25
21	37.79	36.26	34.97	33.56	32.48	32.39	33.69	35.73	38.00	(f)	.....	41.26
22	37.70	36.22	34.96	33.51	32.47	32.40	33.78	35.81	38.05	(f)	.....	41.26
23	37.52	36.18	34.91	33.47	32.45	32.41	33.87	35.89	38.11	(f)	40.83	41.27
24	37.53	36.14	34.88	33.42	32.44	32.44	33.93	35.96	38.17	(f)	40.83	41.29
25	37.54	36.09	34.80	33.39	32.42	32.50	33.98	36.01	38.24	(f)	40.85	41.32
26	37.53	36.05	34.77	33.35	32.41	32.52	34.03	36.11	38.31	(f)	40.88	41.32
27	37.51	36.01	34.72	33.30	32.38	32.54	34.07	36.18	38.37	(f)	40.87	41.32
28	37.49	35.95	34.66	33.24	32.36	32.55	34.14	36.25	38.50	(f)	40.89	41.31
29	37.45		34.62	33.20	32.34	32.61	34.20	36.30	38.57	(f)	40.93	41.28
30	37.41		34.57	33.17	32.34	32.65	34.25	36.36	38.62	(f)	40.98	41.29
31	37.38		34.52		32.34		34.34	36.43		(f)		.....

f Dry at 39.29.

## Wake County

1. Fishdam. Near Northside. Lat.  $36^{\circ}04'$ , long.  $78^{\circ}45'$ . Dug observation water-table well in flood-plain deposits, diameter 4 feet, depth 25 feet, cribbed with rock. Highest water level 2.55 below lsd, May 12, 1937; lowest 16.24 below lsd, Jan. 18, 1942. Records available: 1932-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.78	Apr. 4	5.18	July 11	8.84	Oct. 3	11.48
10	9.72	11	5.76	18	9.43	10	11.76
15	6.88	18	5.46	25	9.50	24	11.47
25	6.58	25	5.10	Aug. 1	9.86	31	11.18
31	6.78	May 2	6.59	8	9.94	Nov. 7	11.61
Feb. 7	6.98	15	5.52	15	10.25	14	10.62
14	7.60	21	5.20	22	10.54	21	10.26
21	7.42	30	5.32	29	10.69	28	10.24
28	6.76	June 6	6.54	Sept. 5	10.98	Dec. 5	9.36
Mar. 7	6.33	13	7.42	12	11.14	12	8.50
14	5.66	20	6.24	19	11.28	19	7.15
21	6.10	27	6.54	26	11.46	26	7.56
26	6.38	July 4	7.95				

2. Baptist parsonage. Garner. Lat.  $35^{\circ}43'$ , long.  $78^{\circ}37'$ . Dug domestic water-table well in weathered granite gneiss, diameter 7 feet, depth 30 feet. Highest water level 23.50 below lsd, Sept. 1, 1949; lowest 29.46 below lsd, Dec. 1, 1953. Records available: 1946-54. May 3, 26.52; June 2, 26.30; July 3, 26.87; Sept. 1, 27.91; Oct. 1, 28.68. Measurement discontinued.

## Wilson County

122. M. P. Whitley. Near Wilson. Lat.  $35^{\circ}42'$ , long.  $77^{\circ}57'$ . Drilled domestic artesian well in sand of Tuscaloosa formation, diameter 6 inches, depth 212 feet, cased to 211. Highest water level 12.31 below lsd, Feb. 26, 1948; lowest 22.86 below lsd, Dec. 28, 1951. Records available: 1947-54. Dec. 14, 21.40.

149. Town of Stantonsburg. Lat.  $35^{\circ}36'$ , long.  $77^{\circ}49'$ . Drilled municipal artesian well in sand of Tuscaloosa formation, diameter 6 inches, depth 151 feet, cased to 151. Highest water level 19.31 below lsd, Nov. 26, 1947; lowest 26.10 below lsd, Nov. 16, 1954. Records available: 1947-54. June 22, 24.58; Nov. 16, 26.10; Dec. 14, 24.92.

## SOUTH CAROLINA

By G. E. Siple and R. W. Jones

### Scope of Water-Level Program

The observation-well program was continued in 1954 as part of the cooperative agreement for ground-water investigations begun in 1946 with the South Carolina Research, Planning and Development Board (renamed the State Development Board). Periodic measurements by wetted tape, pressure gage, or manometer were made in 15 wells in the Coastal Plain province. Four wells were equipped with recording gages during all or part of 1954. Figure 37 shows the location of observation wells included in this report.

### Precipitation

The average annual rainfall reported by the U. S. Weather Bureau during 1954 amounted to 32.96 inches, nearly 3 inches less than the record low of 35.77 inches in 1933. The disastrous drought starting in February, which had but 38 percent of normal precipitation, extended through October. The precipitation for June was an alltime low for the month (1.85 inches). During the period June through September, temperatures averaged 2.1° above normal, and precipitation was only 46 percent of normal. The hurricane "Hazel" accompanied by torrential rains caused extensive damage along the seacoast on October 15. Rainfall during November and December was more nearly normal, and water levels in some wells showed partial recoveries.

### Interpretation of Water-Level Fluctuations

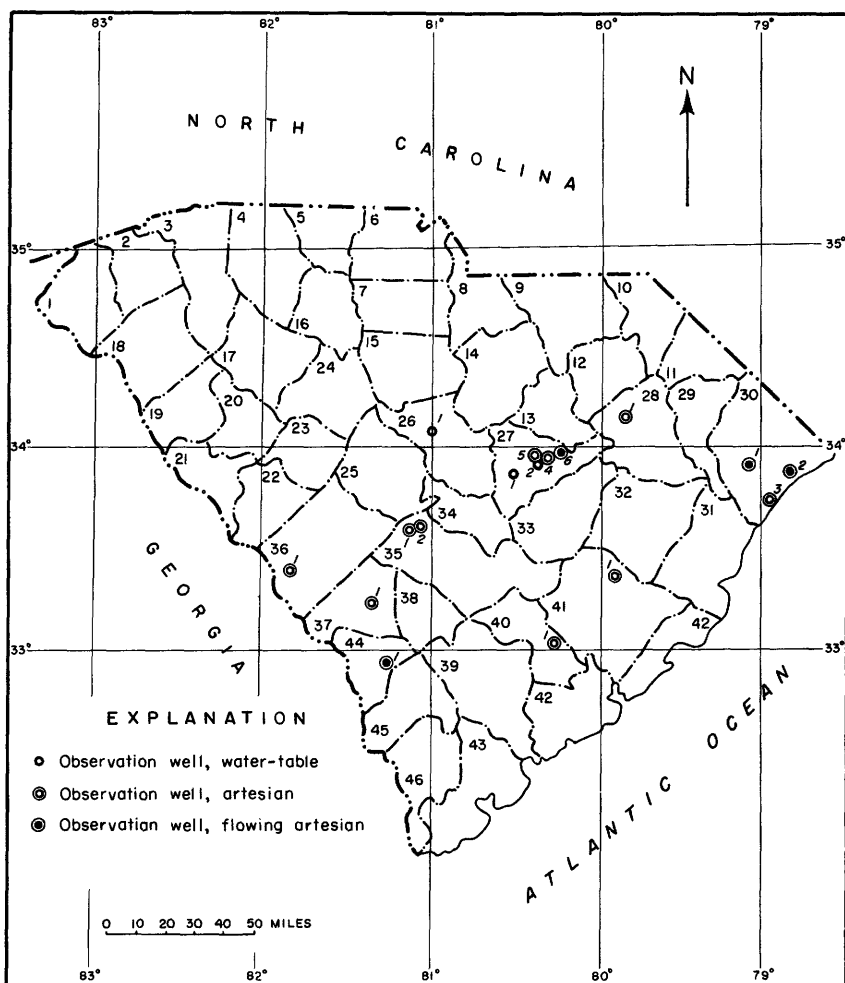
The aquifers of the South Carolina Coastal Plain province consist of beds of sand, gravel, and limestone, ranging from Late Cretaceous to Recent in age. They generally crop out in belts in a northeast-southwest direction, dipping from 8 to 30 feet per mile to the south-southeast. Water-table aquifers are present in shallow deposits in the entire Coastal Plain. Artesian aquifers in the greater part of the same area are at depths of from 100 to 3,400 feet. Water-level fluctuations in water-table aquifers can usually be correlated with precipitation in the immediate areas. This correlation is most apparent during the period from November through April. The normal cycle of water-level fluctuations indicates a recovery during the late autumn or early winter, reaching a maximum in late spring. The levels decline to a minimum in mid-summer and complete the cycle by the recovery in autumn. Normally, the highest rainfall occurs during July and August. However, the high rates of evaporation and transpiration, in addition to the large amount of surface runoff characteristic of summer thundershowers, prevent the recharging of the ground-water reservoir.

Wells SU-1 and SU-2, in water-table aquifers, are situated in the Pocotaligo River basin about 12 miles apart. During 1953 and 1954, the general trends of the water levels in these wells were the same, although the reported rainfall differed by as much as 1.6 inches in one monthly period. Essentially, the hydrographs represent depletion curves showing the loss of water from the aquifer during the drought.

Fluctuations of water levels in artesian wells are caused by several factors, such as proximity to pumping wells, changes in atmospheric pressure, oceanic tides, earth tides, and other loading phenomena. In many instances, the cycle of water-level fluctuation in these wells will indicate a similarity to the cyclic trends for water-table wells in that the highs are pronounced in the winter and spring months and the lows in the summer months. Some typical examples are the water levels for wells DOR-1, FLO-1, and HO-3. Figure 38 shows the hydrographs of some of these wells. The water-level changes in AK-1 reflect correlative changes in barometric pressure. The barometric efficiency of this well has been calculated to range from 33 to 40 percent.

New lowest water levels of record were observed in wells AK-1, AL-1, BRK-1, FLO-1, HO-1, ORB-2, SU-1, and SU-2. There is no sustained pumping within several miles of AK-1, HO-1, or SU-1. The downward trend in piezometric level of AL-1, which continued throughout 1954, may be caused by the drought. The hydrograph for HO-3 shows the effect of the drought in that the water level in the well did not make the normal recovery during the late autumn. The low water levels in BRK-1 were caused by pumping. Previously this well was not used.





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Figure 37. --Location of observation wells in South Carolina, 1954.

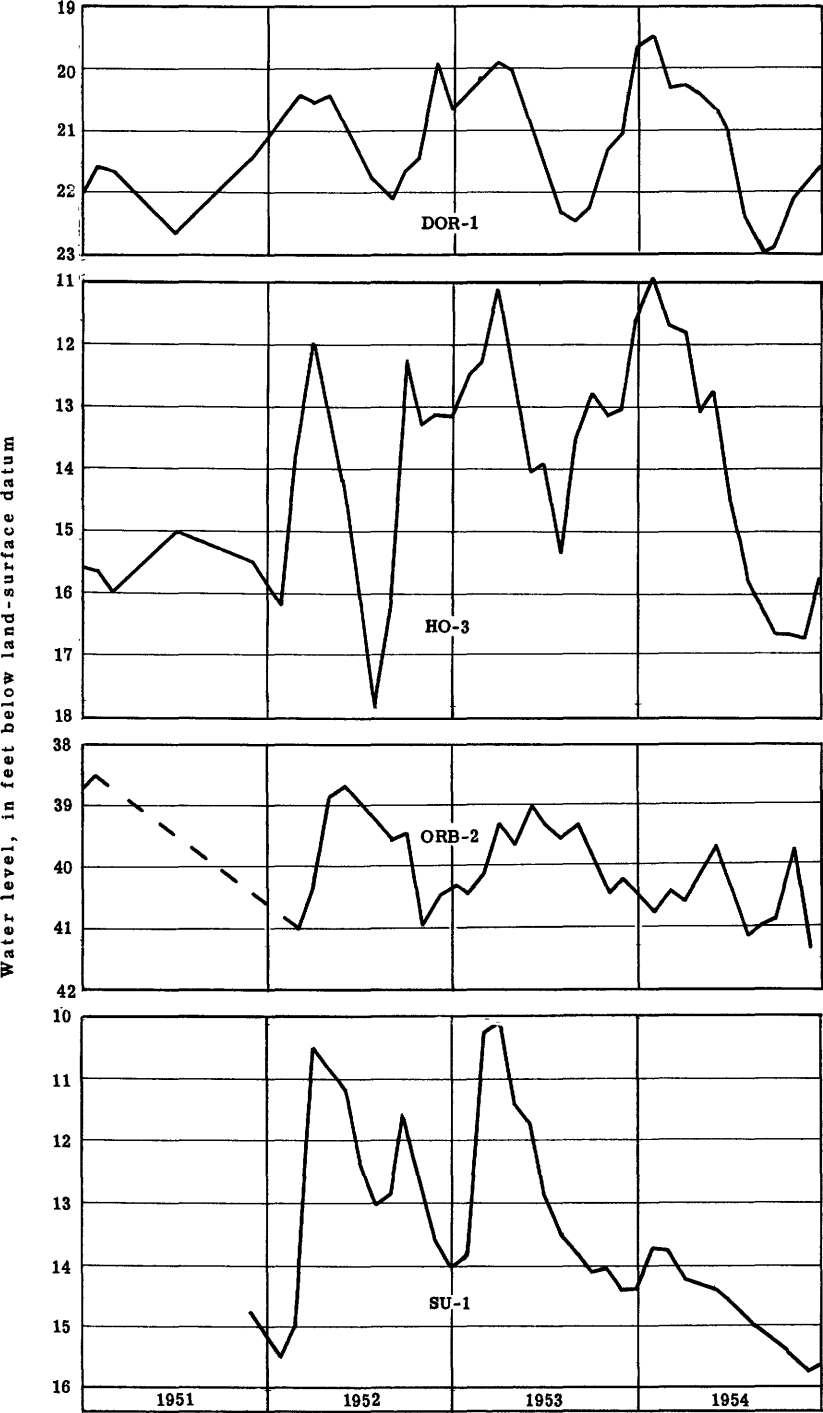


Figure 38. --Water levels in wells DOR-1, HO-3, ORB-2, and SU-1 in the Coastal Plain, S. C., 1951-54.

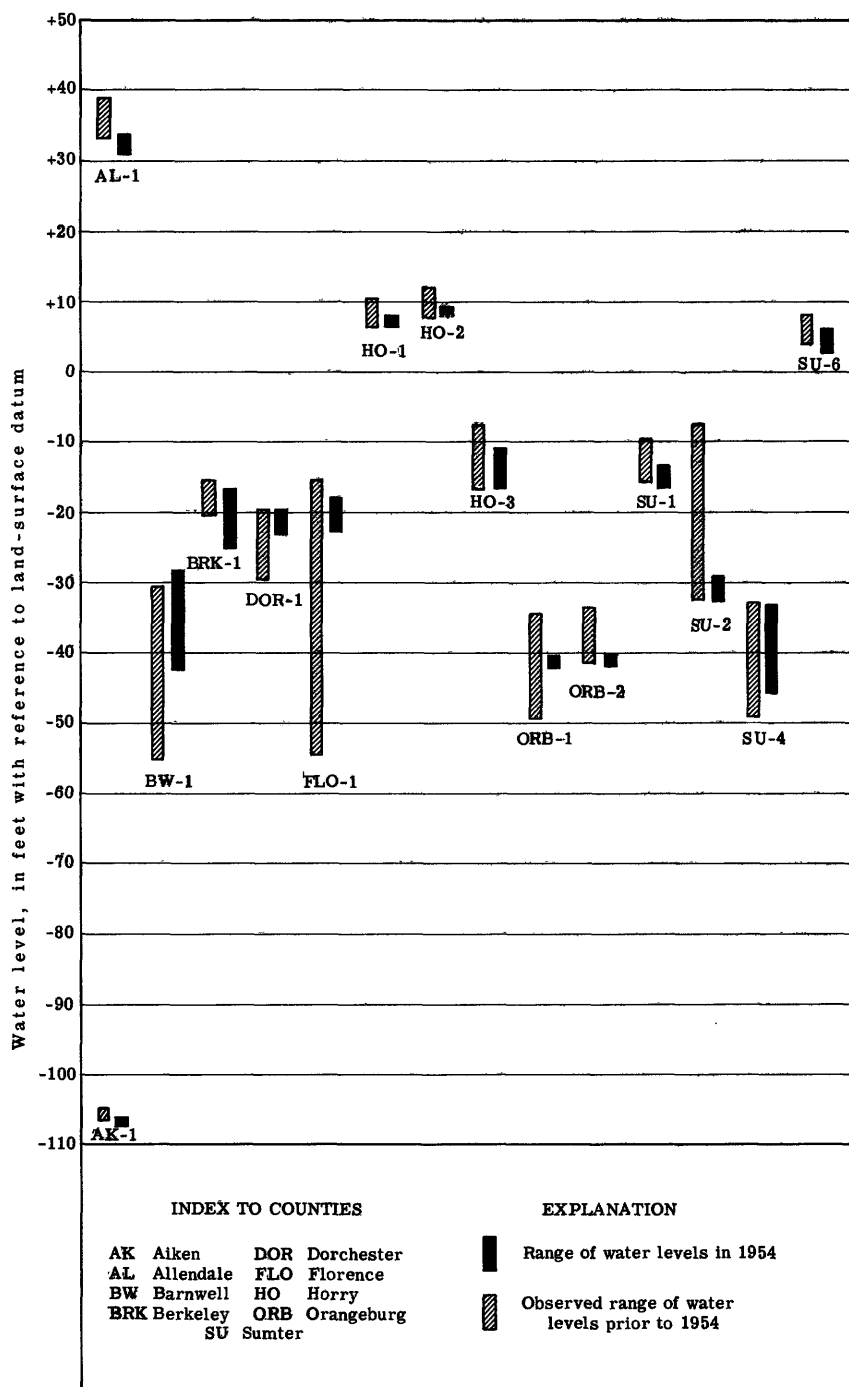


Figure 39. --Range of water levels in 1954 and range of water levels observed during period of record in selected wells in South Carolina.

New high water levels of record were observed in BW-1 and DOR-1. Higher water levels occurred in BW-1 because of decreased pumping in the immediate vicinity. The town of Barnwell placed several new wells in service at some distance from BW-1, thereby decreasing the withdrawal of water from the well field in which BW-1 is situated.

In order to determine the amplitude of water-level fluctuations in ORB-2 attributable to pumping in a well only a few feet away, a recording gage was installed in the observation well on January 20 and removed on October 18. Usable records were obtained for 213 days during this period. The average daily fluctuation due to pumping was 1.31 feet, the largest observed being 1.56 feet and the smallest 1.04 feet. The total range of fluctuation (highest high to lowest low) amounted to 2.56 feet. Thus, the change in water level because of pumping accounts for 61 percent of the total fluctuation. However, the hydrograph shows an almost progressive decline in mean water level in this well over the yearly period. Figure 39 shows a comparison between the range of water levels observed during 1954 and past observations of high and low water levels.

### Well-Numbering System

Wells are arranged alphabetically by county and serially within each county. In this report, the county name is designated by a 2- or 3-letter abbreviation prefixed to the well number.

### Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

#### Aiken County

AK-1. Lyles & Lang Construction Co. Near Beech Island. Lat. 33°26', long. 81°53'. Drilled unused artesian well in sand of Late Cretaceous age, diameter 10 inches, depth 320 feet, cased to 320, screen 290-320. Land-surface datum is about 254 feet above msl. Highest water level 94.50 below lsd, Apr. 2, 1952; lowest 97.09 below lsd, Dec. 26-27, 1954. Records available: 1952-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	95.90	95.97	96.01	95.94	96.13	96.30	96.46	96.65	96.62	96.94	96.78	96.90
2	95.90	95.91	96.04	95.96	96.19	96.20	96.45	96.58	96.65	96.85	96.77	96.77
3	95.91	95.78	96.05	95.93	96.06	96.19	96.44	96.61	96.66	96.80	96.80	96.70
4	95.91	95.71	96.07	95.98	96.02	96.20	96.43	96.65	96.68	96.80	96.76	96.72
5	95.89	95.80	96.07	96.04	96.03	96.26	96.40	96.66	96.70	96.78	96.70	96.72
6	95.88	95.84	96.07	96.03	96.04	96.31	.....	96.61	96.70	96.77	96.73	96.79
7	95.89	95.93	96.07	95.94	96.04	96.32	.....	96.62	96.72	96.88	96.78	96.86
8	95.92	95.93	96.08	95.95	96.10	96.29	.....	96.64	96.67	96.91	96.80	96.86
9	95.93	95.82	96.06	96.06	96.14	96.28	.....	96.64	96.64	96.87	96.82	96.83
10	95.87	95.81	95.95	96.07	96.23	96.29	.....	96.55	96.60	96.80	96.88	96.80
11	95.78	95.87	95.93	96.07	96.24	96.29	.....	96.57	96.60	96.72	96.88	96.82
12	95.97	96.08	95.97	96.04	96.23	96.32	96.45	96.61	96.72	96.71	96.82	96.84
13	96.05	96.10	95.97	96.06	96.18	96.37	96.45	96.62	96.75	96.73	96.76	96.76
14	96.05	96.10	96.00	96.03	96.14	96.40	96.45	96.64	96.75	96.73	96.73	96.64
15	95.96	96.09	96.13	95.93	96.21	96.36	96.44	96.64	96.75	96.63	96.66	96.71
16	95.80	96.07	96.17	95.90	96.23	96.32	96.43	96.61	96.74	96.72	96.63	96.82
17	95.90	95.96	96.19	95.91	96.23	96.34	96.44	96.58	96.76	96.78	96.58	96.82
18	95.95	96.00	96.12	96.00	96.20	96.29	96.46	96.63	96.76	96.83	96.62	96.72
19	95.95	96.01	96.02	96.07	96.19	96.30	96.44	96.63	96.75	96.77	96.61	96.76
20	95.93	96.00	95.84	96.12	96.19	96.31	96.42	96.62	96.73	96.79	96.56	96.86
21	95.89	95.92	95.99	96.10	96.24	96.35	96.40	96.64	96.73	96.76	96.66	96.89
22	95.86	95.97	96.08	96.07	96.26	96.35	96.39	96.69	96.80	96.79	96.70	96.91
23	.....	95.97	96.07	96.02	96.27	96.35	96.42	96.74	96.89	96.84	96.69	96.92
24	.....	95.91	96.04	96.04	96.32	96.35	96.43	96.72	96.93	96.84	96.68	97.00
25	96.00	95.82	96.04	96.08	96.26	96.38	96.48	96.67	96.92	96.82	96.73	97.08
26	96.00	95.82	96.02	96.09	96.28	96.38	96.57	96.66	96.88	96.76	96.79	97.09
27	95.98	95.86	96.02	96.07	96.27	96.36	96.60	96.69	96.86	96.72	96.79	97.09
28	95.97	95.86	.....	96.00	96.22	96.37	96.62	96.69	96.90	96.67	96.69	97.04
29	95.97	.....	96.04	96.07	96.19	96.42	96.63	96.60	96.95	96.59	96.84	96.96
30	95.97	.....	95.99	96.12	96.27	96.43	96.66	96.56	96.96	96.67	96.90	96.91
31	95.97	.....	95.90	.....	96.33	.....	96.66	96.58	.....	96.75	.....	96.93

#### Allendale County

AL-1. Mr. Easton. Fairfax. Lat. 32°57', long. 81°14'. Drilled unused artesian well in sands of Late Cretaceous age, diameter 8 inches, depth 660 feet. Land-surface datum is about 135 feet above msl. Highest water level 39.0 above lsd, June 19, 1947; lowest 30.5 above lsd, Sept. 25, 1954. Records available: 1946-54.

## AL-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	+33.4	May 29	+33.4	Aug. 31	+31.1	Oct. 30	+31.6
Feb. 27	+33.4	June 27	+32.2	Sept. 25	+30.5	Nov. 25	+32.2
May 1	+33.4	Aug. 1	+31.9				

Barnwell County

BW-1. Town of Barnwell. Municipal well field. Lat. 33°14', long. 81°21'. Drilled unused artesian well in sand of Tertiary age, diameter 6 inches, depth 145 feet. Land-surface datum is about 215 feet above msl. Highest water level 28.58 below lsd, May 17, 1954; lowest 56.92 below lsd, Sept. 15, 1953. Records available: 1948-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.86	36.82	36.00	32.00	33.67	34.45	39.40	42.18	37.63	39.39	41.13	37.60
2	41.30	36.18	35.32	32.75	33.82	33.84	39.78	42.25	37.81	40.06	41.33	37.66
3	.....	35.39	35.12	33.05	34.30	31.52	40.13	42.41	38.06	39.64	41.46	38.32
4	.....	.....	35.25	34.00	34.02	32.21	38.72	41.24	39.21	39.22	39.75	40.71
5	41.20	.....	33.83	34.23	34.23	33.03	.....	41.04	38.43	39.37	38.60	41.72
6	41.21	.....	34.47	33.24	34.16	33.38	38.57	40.80	39.06	39.66	37.39	39.81
7	40.21	.....	33.65	33.20	34.26	33.41	39.19	39.20	39.42	38.39	35.50	40.25
8	39.97	.....	34.60	33.51	34.80	33.65	40.02	38.65	39.27	38.15	35.30	40.44
9	40.43	35.62	34.31	33.83	.....	33.57	39.12	39.60	39.70	37.56	37.90	40.27
10	40.40	35.10	34.52	34.56	34.62	34.15	38.10	38.83	40.23	37.46	39.37	38.30
11	40.88	34.70	34.20	33.66	34.54	34.53	36.53	37.70	40.38	38.28	38.86	38.40
12	41.61	34.82	33.84	34.04	34.85	34.05	37.87	37.65	39.87	38.98	38.71	39.15
13	41.27	36.03	33.87	33.62	35.12	34.63	39.82	37.31	39.54	38.51	39.83	40.12
14	40.09	36.80	34.60	32.90	32.85	34.65	40.91	38.35	39.20	37.70	40.06	39.44
15	41.11	36.93	35.03	33.38	31.35	33.66	40.84	38.46	38.39	36.63	39.15	39.57
16	40.41	.....	34.47	32.55	29.80	32.93	40.42	38.11	36.39	37.37	37.53	39.93
17	39.40	.....	32.83	33.79	29.57	33.13	38.60	37.98	36.03	37.43	37.20	40.12
18	40.30	35.12	33.11	34.63	30.20	33.67	36.75	37.57	35.98	38.53	36.84	38.71
19	40.53	35.20	33.35	34.65	31.37	33.65	38.78	37.58	35.35	39.55	36.93	39.66
20	39.41	35.85	34.32	33.65	30.83	33.39	39.98	38.69	34.95	39.66	37.38	40.65
21	39.00	36.50	35.30	33.20	31.97	33.64	41.07	38.10	33.93	39.16	38.74	41.44
22	39.50	36.55	35.60	33.64	32.86	34.17	41.47	37.90	32.08	37.98	40.44	40.33
23	41.00	35.60	34.78	33.93	33.16	34.99	41.80	38.30	31.32	37.26	40.17	40.77
24	.....	35.03	34.01	33.95	33.94	35.24	41.40	38.90	31.02	37.03	38.92	40.60
25	.....	35.21	32.62	33.65	33.68	34.74	40.35	39.10	30.88	36.28	38.74	39.36
26	40.02	34.80	33.40	35.54	33.61	35.38	40.06	39.74	30.80	36.50	38.13	39.52
27	40.46	34.96	34.23	35.52	33.30	35.52	41.10	39.25	30.71	36.46	37.70	39.21
28	39.72	34.10	34.99	33.56	32.73	37.17	41.76	38.64	31.82	36.13	38.54	38.68
29	.....	.....	34.98	33.15	32.95	33.38	42.06	38.58	33.83	37.60	39.13	37.96
30	37.43	.....	34.33	33.76	33.43	38.38	42.50	38.57	37.02	38.70	37.67	37.92
31	36.53	.....	32.81	.....	33.90	.....	42.70	38.08	.....	39.92	.....	37.64

Berkeley County

BRK-1. Santee River Hardwood Co. Saint Stephen. Lat. 33°25', long. 79°56'. Drilled artesian well in sand of Late Cretaceous age, diameter 6 inches, depth 900 feet. Land-surface datum is about 75 feet above msl. Highest water level 15.69 below lsd, June 14, 1949; lowest 25.30 below lsd, Sept. 25, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	16.62	May 1	16.82	Aug. 1	17.45	Oct. 30	25.08
Feb. 27	16.59	29	16.85	30	17.57	Nov. 25	24.94
Mar. 28	16.60	June 27	17.14	Sept. 25	25.30		

Dorchester County

DOR-1. Town of Summerville. Near town hall on Main St. Lat. 33°01', long. 80°10'. Drilled unused artesian well in sand of Late Cretaceous age, diameter 8 inches, depth 925 feet. Land-surface datum is about 70 feet above msl. Highest water level 19.49 below lsd, Jan. 31, 1954; lowest 28.22 below lsd, Apr. 30, 1949. Records available 1948-54.

## DOR-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	19.49	May 1	20.32	Aug. 1	22.59	Oct. 30	22.15
Feb. 27	20.30	29	20.58	Sept. 25	22.88	Nov. 25	21.92
Mar. 28	20.27	June 27	21.19				

## Florence County

FLO-1. Town of Timmonsville. Near reservoir. Lat. 34°08', long. 79°51'. Drilled unused artesian well in sand of Late Cretaceous age, diameter 5 inches, depth 165 feet. Land-surface datum is about 150 feet above msl. Highest water level 15.39 below lsd, Feb. 23, 1950; lowest 23.56 below lsd, Aug. 30, 1954. Records available: 1950-54.

Jan. 30	18.80	May 1	19.12	June 26	20.85	Aug. 30	23.56
Feb. 28	18.44	30	19.70	July 30	22.30	Sept. 26	22.30
Mar. 27	17.80						

## Horry County

HO-1. St. Paul's Baptist Church. Lat. 33°53', long. 79°03'. Drilled unused artesian well in sands of Late Cretaceous age, diameter 2 inches, reported depth 250 feet. Land-surface datum is about 26 feet above msl. Highest water level 10.7 above lsd, Feb. 28, 1947; lowest 5.7 above lsd, June 28, 1951. Records available: 1947-54. Feb. 28, +6.4; May 1, +6.4; May 30, +6.4; June 27, +7.82; July 31, +7.57; Aug. 30, +7.50; Sept. 26, +6.4.

HO-2. K. C. Ellsworth. Briarcliff Acres. Lat. 33°48', long. 78°42'. Drilled domestic artesian well in sands of Late Cretaceous age, diameter 10 inches, depth 587 feet. Land-surface datum is about 25 feet above msl. Highest water level 12.5 above lsd, Jan. 31, 1951; lowest 8.1 above lsd, July 25, 1953. Records available: 1947-54. May 1, +5.8, pumped recently; July 31, +5.39, pumped recently; Aug. 30, +5.26, pumped recently; Nov. 26, +9.3.

HO-3. City of Myrtle Beach. Lat. 33°41', long. 78°54'. Drilled unused artesian well in sands of Late Cretaceous age, diameter 8 inches, depth 87 feet. Land-surface datum is about 25 feet above msl. Highest water level 7.30 below lsd, Apr. 16, 1948; lowest 17.79 below lsd, Aug. 26, 1952. Records available: 1946-54.

Jan. 31	10.97	May 1	13.18	July 31	14.74	Oct. 30	16.70
Feb. 28	11.71	30	12.77	Aug. 30	16.25	Nov. 25	16.74
Mar. 28	11.79	June 27	14.56	Sept. 25	16.70		

## Orangeburg County

ORB-1. Town of North. Municipal well field. Lat. 33°37', long. 81°07'. Drilled unused artesian well in sand of Tertiary age, diameter 10 inches, depth 125 feet. Land-surface datum is about 280 feet above msl. Highest water level 33.90 below lsd, Mar. 30, 1949; lowest 49.20 below lsd, Jan. 28, 1946. Records available 1946-54.

Jan. 31	40.90	May 1	41.05	Aug. 1	41.27	Oct. 30	41.82
Feb. 27	40.69	29	41.10	31	41.34	Nov. 25	41.95
Mar. 28	40.96	June 27	40.20	Sept. 25	41.72		

ORB-2. Town of North. Municipal well field. Lat. 33°37', long. 81°07'. Drilled unused artesian well in sand of Tertiary age, diameter 10 inches, depth 125 feet. Land-surface datum is about 280 feet above msl. Highest water level 33.12 above lsd, Mar. 30, 1949; lowest 41.45 below lsd, Nov. 25, 1954. Records available: 1947-54.

## Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	39.57	39.42	39.64	.....	.....	39.76	.....	40.15	40.22	.....	.....
2	.....	39.50	39.46	39.65	.....	.....	39.77	39.92	40.15	40.23	.....	.....
3	.....	39.49	39.37	39.57	.....	.....	39.73	39.99	40.14	40.24	.....	.....
4	.....	39.57	39.52	39.61	.....	.....	39.69	40.00	40.22	40.23	.....	.....
5	.....	39.57	39.47	39.65	.....	39.63	39.69	40.04	40.20	40.27	.....	.....
6	.....	39.59	39.49	39.63	.....	39.62	39.77	39.98	40.17	40.25	.....	.....
7	.....	39.56	39.52	39.62	.....	39.60	39.76	40.01	40.20	40.27	.....	.....
8	.....	39.50	39.50	39.62	.....	39.60	39.80	40.04	40.18	40.27	.....	.....
9	.....	39.51	39.49	39.68	.....	39.61	39.74	40.03	40.17	40.28	.....	.....
10	.....	39.55	39.45	.....	.....	39.62	39.75	40.00	40.13	40.27	.....	.....

ORB-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	39.52	39.49	.....	.....	39.59	39.73	39.99	40.13	40.28	.....	.....
12	.....	39.63	39.50	.....	.....	39.68	39.72	40.01	40.27	40.27	.....	.....
13	.....	39.62	39.52	.....	.....	39.61	39.76	40.00	40.20	40.33	.....	.....
14	.....	39.55	39.37	.....	.....	39.60	39.73	40.00	40.18	40.29	.....	.....
15	.....	39.56	39.60	.....	.....	39.60	39.72	40.00	40.17	40.18	.....	.....
16	.....	39.49	39.57	.....	.....	39.59	39.78	40.07	40.17	40.43	.....	.....
17	.....	39.45	39.51	.....	.....	39.62	39.65	40.01	40.18	40.40	.....	.....
18	.....	39.57	39.47	.....	.....	39.64	39.74	40.05	40.18	40.41	.....	.....
19	h40.47	39.53	39.46	.....	.....	39.62	39.74	40.04	40.17	.....	.....	.....
20	39.67	39.50	39.47	.....	.....	39.62	39.79	40.06	40.17	.....	.....	.....
21	39.62	39.44	39.46	39.65	.....	39.63	39.78	40.07	40.25	.....	.....	.....
22	39.55	39.54	39.55	39.67	39.65	39.62	39.80	40.13	40.27	.....	.....	.....
23	39.75	39.53	39.45	39.70	39.60	39.70	39.80	40.08	40.28	.....	.....	.....
24	.....	.....	39.48	39.71	39.64	39.68	39.82	40.08	40.29	.....	.....	.....
25	.....	.....	39.49	.....	.....	39.72	39.85	40.08	40.30	.....	h41.45	.....
26	.....	.....	39.65	.....	.....	39.70	39.80	40.09	40.12	.....	.....	.....
27	39.59	.....	39.53	.....	.....	39.73	39.84	40.09	40.12	.....	.....	.....
28	39.63	39.39	39.54	.....	.....	39.82	39.85	40.07	40.18	.....	.....	.....
29	39.61	.....	39.57	.....	h39.68	39.75	39.93	40.02	40.19	.....	.....	.....
30	39.60	.....	39.51	.....	.....	39.80	.....	40.04	40.24	.....	.....	.....
31	39.62	.....	39.57	.....	.....	.....	.....	40.30	.....	h39.76	.....	.....

h Tape measurement.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	40.99	40.86	41.20	.....	.....	41.08	.....	41.39	41.50	.....	.....
2	.....	40.85	40.97	41.11	.....	.....	41.07	41.28	41.40	41.25	.....	.....
3	.....	40.89	40.78	41.13	.....	.....	40.87	41.31	41.46	41.44	.....	.....
4	.....	40.93	40.88	41.04	.....	.....	40.98	41.36	41.45	41.46	.....	.....
5	.....	40.99	40.88	41.09	.....	40.98	41.09	41.25	41.41	41.50	.....	.....
6	.....	40.84	40.92	40.97	.....	40.87	41.08	41.27	41.47	41.35	.....	.....
7	.....	40.88	40.74	40.98	.....	40.93	41.14	41.33	41.47	41.52	.....	.....
8	.....	40.91	40.85	41.05	.....	40.95	40.96	41.30	41.47	41.50	.....	.....
9	.....	40.83	40.77	41.08	.....	41.05	41.05	41.21	41.44	41.42	.....	.....
10	.....	40.83	40.88	.....	.....	40.95	41.01	41.20	41.36	41.48	.....	.....
11	.....	40.85	40.92	.....	.....	40.94	40.96	41.25	41.50	41.42	.....	.....
12	.....	40.98	40.92	.....	.....	41.00	41.01	41.35	41.47	41.43	.....	.....
13	.....	40.95	40.91	.....	.....	40.81	41.02	41.30	41.48	41.44	.....	.....
14	.....	40.91	40.90	.....	.....	40.93	40.91	41.31	41.50	41.40	.....	.....
15	.....	40.98	41.00	.....	.....	40.01	41.07	41.35	41.47	41.35	.....	.....
16	.....	40.90	41.03	.....	.....	40.95	41.08	41.21	41.45	41.49	.....	.....
17	.....	40.97	41.01	.....	.....	41.01	41.11	41.23	41.44	41.46	.....	.....
18	.....	41.05	40.95	.....	.....	41.02	41.02	41.30	41.42	41.45	.....	.....
19	h40.47	40.90	40.73	.....	.....	40.80	41.14	41.21	41.37	.....	.....	.....
20	40.83	40.92	40.96	.....	.....	40.90	41.10	41.34	41.44	.....	.....	.....
21	41.00	40.85	40.85	41.08	.....	40.95	41.16	41.43	41.44	.....	.....	.....
22	40.78	41.00	41.06	40.97	41.09	41.01	41.15	41.42	41.54	.....	.....	.....
23	39.98	40.89	41.02	41.05	41.05	40.96	41.10	41.40	41.51	.....	.....	.....
24	.....	.....	40.91	41.04	41.04	40.77	41.15	41.35	41.46	.....	.....	.....
25	.....	.....	41.04	.....	41.08	41.07	41.04	41.36	41.43	.....	h41.45	.....
26	.....	.....	41.16	.....	.....	41.08	41.16	41.35	41.38	.....	.....	.....
27	41.93	40.94	40.99	.....	.....	41.08	41.11	41.26	41.40	.....	.....	.....
28	40.97	40.63	40.95	.....	.....	41.07	41.25	41.34	41.44	.....	.....	.....
29	40.88	.....	41.07	.....	h39.68	41.11	41.25	41.16	41.43	.....	.....	.....
30	40.82	.....	41.04	.....	.....	41.09	.....	41.43	41.45	.....	.....	.....
31	40.90	.....	41.12	.....	.....	.....	.....	41.41	.....	h39.76	.....	.....

h Tape measurement.

Richland County

RIC-1. Columbia Products Co. Formerly Shakespeare Manufacturing Co. Near Columbia. Lat. 34°02', long. 81°00'. Drilled unused water-table well in sands of Late Cretaceous age, diameter 6 inches, depth 233 feet. Land-surface datum is about 390 feet above msl. Highest water level 75.50 below lsd, Nov. 13, 1949; lowest 84.10 below lsd, May 16, 1952. Records available: 1949-52. No measurement made in 1954.

## Sumter County

SU-1. U. S. Geol. Survey. Poinsett State Park. Near Wedgefield. Lat. 33°53', long. 80°29'. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 29 feet, cased to 29, perforations 18-29. Land-surface datum is about 190 feet above msl. Highest water level 10.15 below lsd, Mar. 29, 1953; lowest dry, Jan. 11, 31, 1951. Records available 1942-43, 1946-49, 1951-54. Recording gage installed Jan. 17, 1954.

Daily midnight water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	13.67	13.95	14.30	14.26	14.35	14.63	14.92	.....	.....	.....	.....
2	.....	13.64	13.87	14.29	14.23	14.37	14.63	14.94	.....	.....	.....	.....
3	.....	13.65	13.96	14.30	14.20	14.38	13.64	14.95	.....	.....	.....	.....
4	.....	13.65	13.98	14.34	14.22	14.42	14.64	14.95	.....	.....	.....	.....
5	.....	13.67	13.97	14.34	14.22	14.43	14.65	14.96	.....	.....	.....	.....
6	.....	13.70	13.98	14.33	14.22	14.43	14.66	14.97	.....	.....	.....	.....
7	.....	13.70	13.99	14.33	14.22	14.43	14.67	14.99	.....	.....	.....	.....
8	.....	13.61	13.98	14.36	14.25	14.44	14.68	15.00	.....	.....	.....	.....
9	.....	13.64	13.97	14.37	14.26	14.46	14.70	15.01	.....	.....	.....	.....
10	.....	13.64	14.00	14.36	14.25	14.46	14.70	15.01	.....	.....	.....	.....
11	.....	13.70	14.04	14.35	14.24	14.48	14.71	.....	.....	.....	.....	.....
12	.....	13.77	14.06	14.37	14.24	14.49	14.71	.....	.....	.....	.....	.....
13	.....	13.75	14.05	14.35	14.22	14.50	14.71	15.02	.....	.....	.....	.....
14	.....	13.72	14.14	14.34	14.25	14.51	14.72	15.03	.....	.....	.....	.....
15	.....	13.72	14.17	14.33	14.25	14.51	14.73	15.04	.....	.....	.....	.....
16	.....	13.68	14.17	14.27	14.24	14.53	14.73	15.05	.....	.....	.....	.....
17	13.80	13.73	14.14	14.36	14.22	14.50	14.73	15.07	.....	.....	.....	.....
18	13.79	13.75	14.12	14.35	14.22	14.50	14.74	15.08	.....	.....	.....	.....
19	13.77	13.75	14.09	14.35	14.22	14.51	14.74	15.08	.....	.....	.....	.....
20	13.77	13.73	14.18	14.33	14.28	14.50	14.76	15.08	.....	.....	.....	.....
21	13.76	13.72	14.23	14.30	14.30	14.51	14.76	15.09	.....	.....	.....	.....
22	13.76	13.77	14.20	14.28	14.30	14.53	14.77	15.10	.....	.....	.....	.....
23	13.75	13.76	14.25	14.26	14.31	14.54	14.78	15.10	.....	.....	.....	.....
24	13.73	13.71	14.23	14.26	14.31	14.54	14.79	15.10	.....	.....	.....	.....
25	13.73	13.76	14.25	14.24	14.33	14.54	14.80	15.11	.....	.....	.....	.....
26	13.72	13.80	14.25	14.22	14.33	14.57	14.81	15.12	h15.32	.....	h15.74	.....
27	13.72	13.82	14.20	.....	14.32	14.58	14.82	15.13	.....	.....	.....	.....
28	13.73	13.77	14.23	.....	14.32	14.59	.....	15.13	.....	.....	.....	.....
29	13.72	14.20	.....	.....	14.36	14.60	.....	15.14	.....	.....	.....	.....
30	13.70	14.24	.....	.....	14.38	14.62	14.90	15.16	.....	.....	.....	.....
31	13.71	14.27	.....	.....	14.37	.....	14.91	14.17	.....	h15.46	.....	.....

h Tape measurement.

SU-2. City of Sumter. Municipal well field. Lat. 33°57', long. 80°22". Jetted unused water-table well in sand of Tertiary age, diameter 24 inches, depth 50 feet. Land-surface datum is about 176 feet above msl. Highest water level 6.96 below lsd, Apr. 15, 1947; lowest 31.97 below lsd, Oct. 31, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	29.44	May 1	28.72	July 30	30.35	Oct. 31	31.97
Feb. 28	29.20	June 30	29.41	Aug. 30	30.80	Nov. 26	31.87
Mar. 27	29.34	June 26	29.45	Sept. 26	31.34		

SU-4. City of Sumter. Municipal well field. Lat. 33°57', long. 80°22". Drilled public-supply artesian well in sands of Late Cretaceous age, diameter 18 inches, depth 625 feet, cased to 625, screens 415-435, 508-528, 550-570, 605-625. Land-surface datum is about 176 feet above msl. Highest water level 32.75 below lsd, Dec. 30, 1953; lowest 48.78 below lsd, May 29, 1953. Records available: 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	33.78	May 1	39.23	Aug. 30	46.45	Oct. 31	39.79
Feb. 28	36.42	June 30	38.11	Sept. 26	43.38	Nov. 26	40.95
Mar. 27	34.80	June 26	42.43				

SU-5. City of Sumter. Municipal well field. Lat. 33°57', long. 80°22". Drilled public-supply artesian well in sand of Late Cretaceous age, diameter 18 inches, depth 714 feet, cased to 714, screens 518-538, 600-620, 690-710. Land-surface datum is about 176 feet above msl. Highest water level 32.83 below lsd, July 30, 1949; lowest 48.98 below lsd, May 27, 1952. Records available: 1948-52. No measurement made in 1954.

SU-6. Beulah Methodist Church. Near Sumter. Lat. 33°57', long. 80°15'. Drilled domestic artesian well in sands of Late Cretaceous age, diameter 2 inches, depth 250 feet. Land-surface datum is about 125 feet above msl. Highest water level 8.4 above lsd, Apr. 5, 1950; lowest 2.4 above lsd, May 30, 1954. Records available: 1948-54.



SU-6--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	+6.1	May 30	+2.4	July 30	+4.70	Sept. 26	+3.90
Feb. 28	+3.2	June 29	+5.26	Aug. 30	+4.24	Oct. 31	+3.2
May 1	+3.2						

## TENNESSEE

By J. H. Criner, Jr.

### Scope of Water-Level Program

The observation-well program in Tennessee was started in Memphis in 1940 and expanded to include west Tennessee in 1947 and central and east Tennessee in 1949. The program was continued in 1954 cooperatively with the Memphis Light, Gas and Water Division and the Tennessee Department of Conservation, Division of Geology. It provides factual evidence of water-level trends and is the basis for more comprehensive investigations of ground-water resources in the State. Measurements in 52 observation wells are reported, 29 of which were equipped with recording gages. Figures 40, 41, and 42 show the location of observation wells. Reports on ground water in the central basin of Tennessee and on geologic source and chemical quality of public ground-water supplies of western Tennessee were released during the year. A report on ground-water resources of east Tennessee and a memorandum of the post-Paleocene subsurface stratigraphy of the Memphis area were completed.

### Precipitation

The average precipitation for Tennessee in 1954 was 45.80 inches, which is 4.39 inches below normal. The following table gives the annual precipitation and departure from normal at selected stations in the Tertiary outcrop belt of west Tennessee. Most of the municipal and industrial supplies of west Tennessee are obtained from sands of Tertiary age.

Precipitation and departure from normal, 1940-54

Year	Moscow		Brownsville		Milan		Martin	
	Total precipi- tation	Departure from normal	Total precipi- tation	Departure from normal	Total precipi- tation	Departure from normal	Total precipi- tation	Departure from normal
1940	37.98	-14.61	38.32	-11.26	36.87	-12.84	40.77	a-5.80
1941	34.37	-18.22	31.49	-18.09	31.35	-18.36	29.79	a-16.78
1942	48.46	-4.13	44.34	-5.24	46.21	-3.50	41.31	a-5.26
1943	43.29	-9.30	36.43	-13.15	43.13	-6.58	32.94	a-13.63
1944	64.09	11.50	57.76	8.18	57.44	7.73	49.62	a3.05
1945	67.44	14.85	70.74	21.16	69.97	20.26	60.47	13.90
1946	64.54	11.95	65.13	15.55	61.41	11.70	51.48	4.91
1947	50.02	-2.57	49.52	-.06	50.91	1.20	41.27	-5.30
1948	67.95	15.36	60.02	10.44	57.28	7.57	54.28	7.71
1949	62.89	10.30	56.06	6.48	67.15	17.44	56.81	10.24
1950	b67.33	b14.74	65.49	15.91	b68.78	b19.07	68.48	21.91
1951	57.53	4.94	60.11	10.53	73.34	23.63	58.14	11.57
1952	c38.87	c-13.72	45.45	-4.13	44.46	-5.25	c48.05	c1.48
1953	47.71	-5.99	46.56	-5.89	47.37	-6.33	41.32	-5.25
1954	c45.91	c-7.79	39.32	-13.13	42.56	-11.14	39.15	-7.42

a Computed from 46.57 as the normal precipitation at Martin.

b Record incomplete.

c Record partially estimated.

### Pumpage

The following table gives the estimated daily quantities of water pumped from the "500-foot" and the "1,400-foot" sands in the Memphis area since 1941.

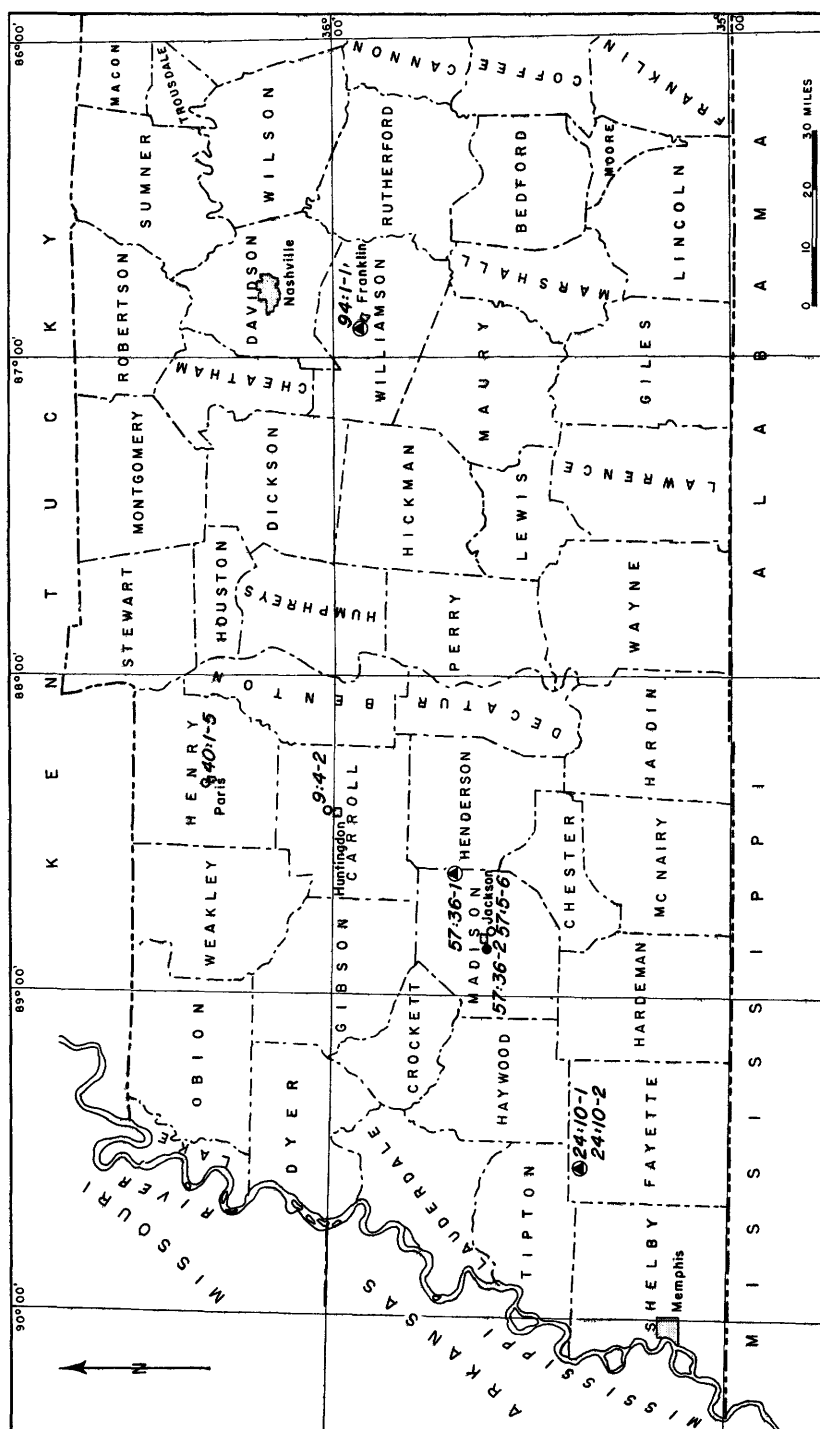


Figure 40. --Location of observation wells in western Tennessee, 1954.

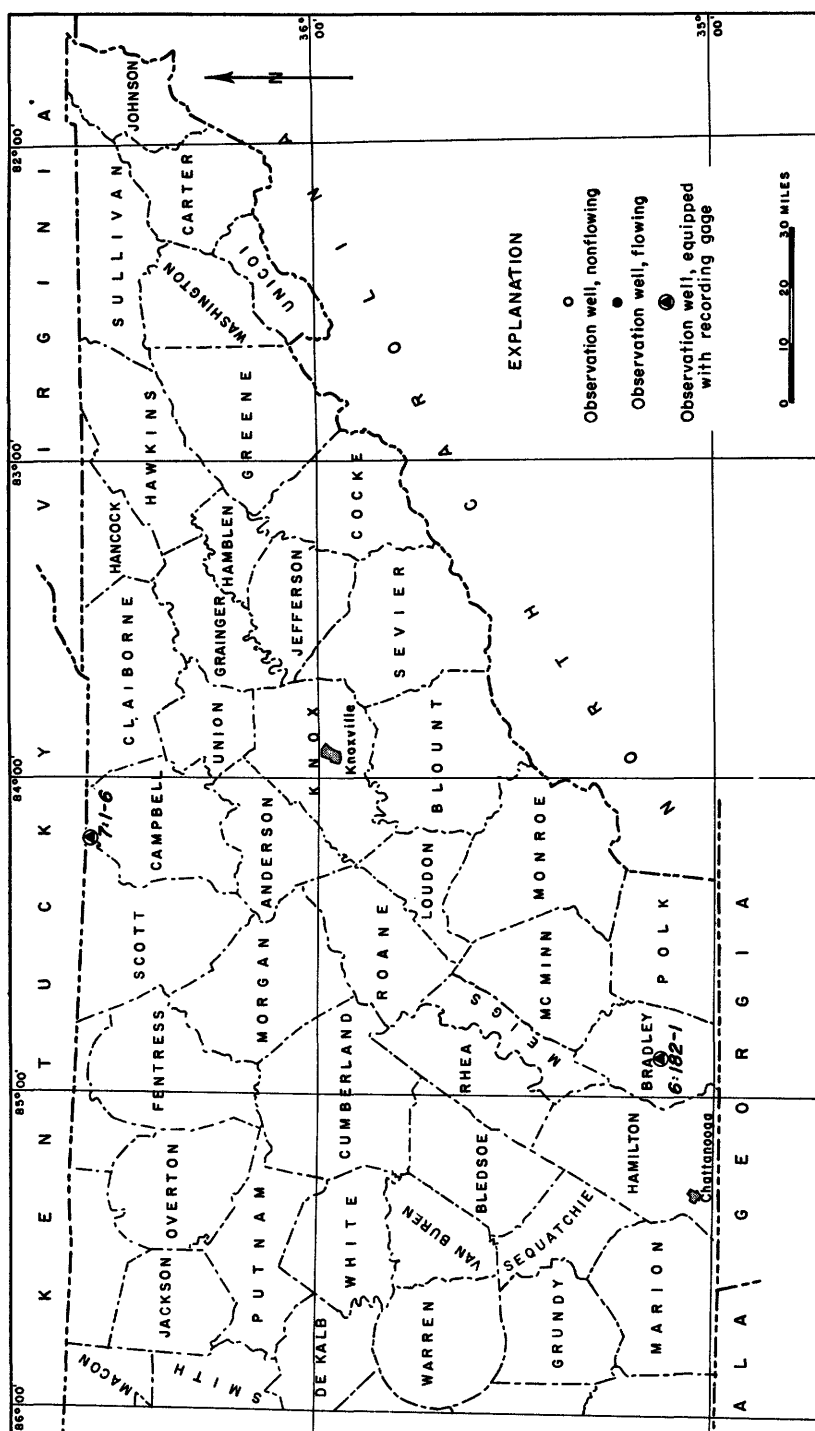


Figure 41. --Location of observation wells in eastern Tennessee, 1954.

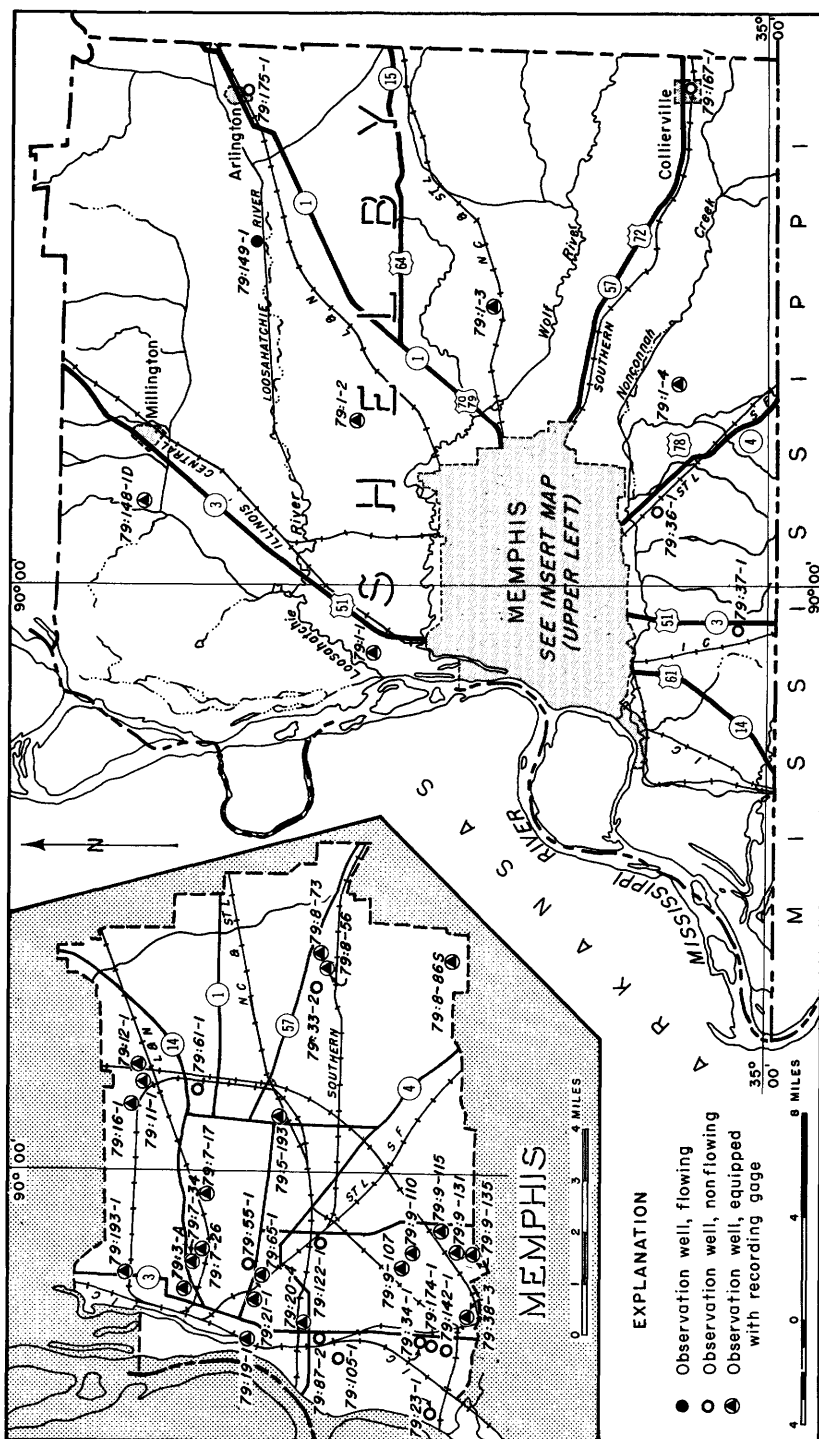


Figure 42.--Location of observation wells in Shelby County, Tenn., 1954.

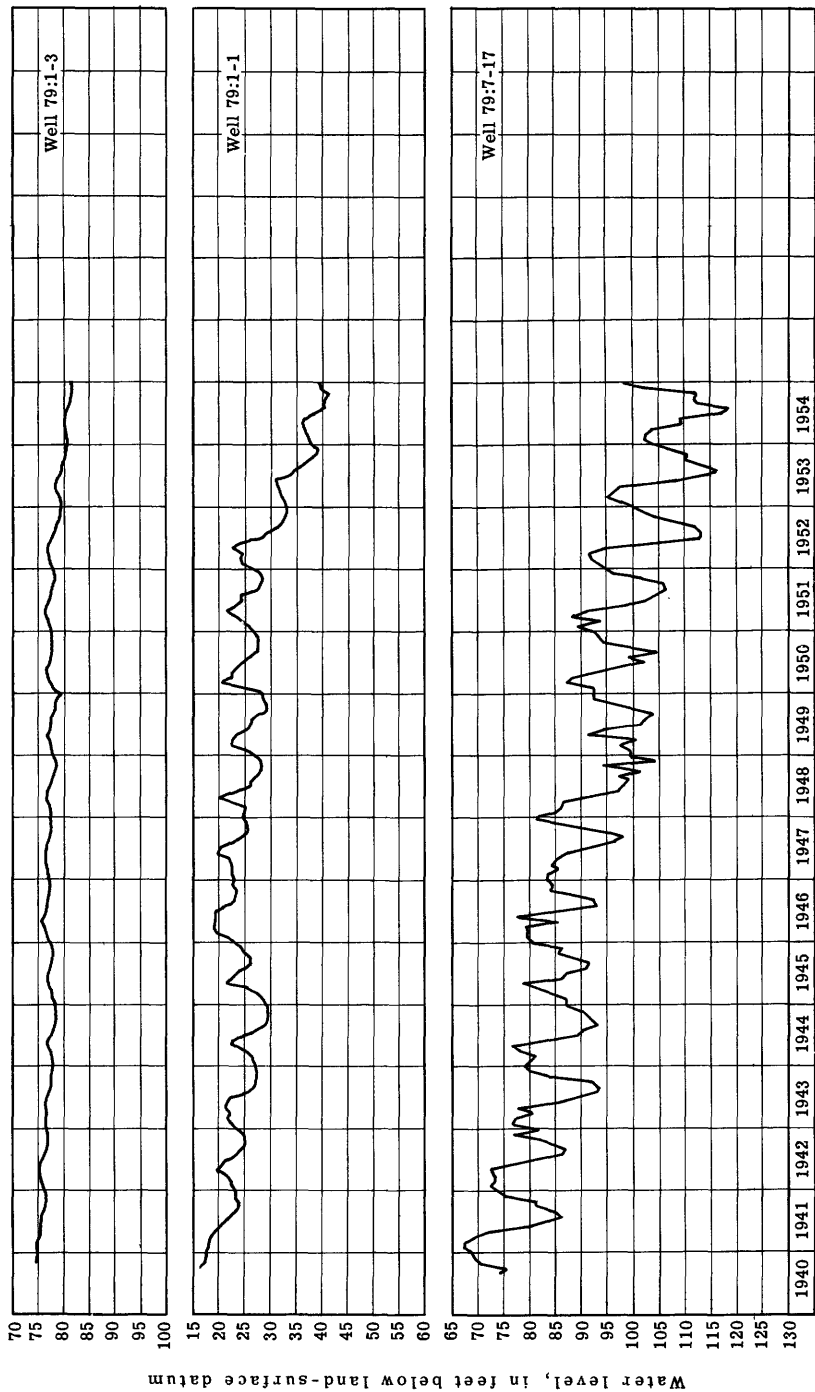


Figure 43. --Water levels in wells in the "500-foot" sand in the Memphis, Tenn., area, 1940-54.

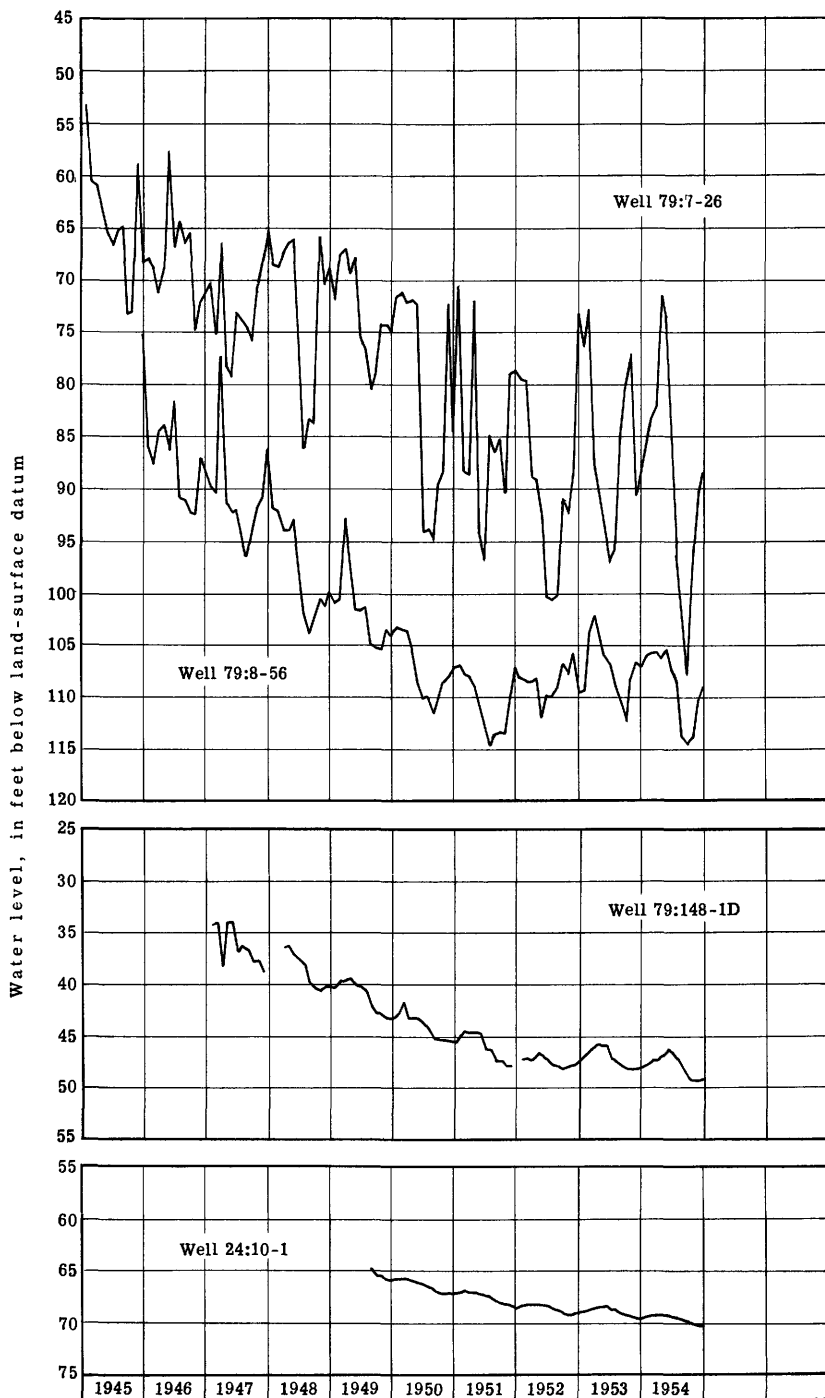


Figure 44. --Water levels in wells in the "1,400-foot" sand in the Memphis, Tenn., area.

Average daily pumpage in the Memphis area

Year	"500-foot" sand (gallons)	"1,400-foot" sand (gallons)
1941	75,000,000	9,000,000
1942	85,000,000	9,000,000
1943	100,000,000	11,000,000
1944	105,000,000	11,000,000
1945	95,000,000	9,000,000
1946	85,000,000	9,000,000
1947	90,000,000	10,000,000
1948	100,000,000	11,000,000
1949	100,000,000	11,000,000
1950	100,000,000	11,000,000
1951	105,000,000	11,000,000
1952	110,000,000	11,000,000
1953	116,000,000	11,000,000
1954	119,000,000	11,000,000

## Interpretation of Water-Level Fluctuations

There was a general decline of water levels in wells screened in the "500-foot" sand in the Memphis area in 1954. This fact can be attributed primarily to increased pumping. A drought (more severe than the droughts of 1952 and 1953) starting in February and continuing throughout the year was the major cause of the increase, especially in municipal pumping. The average decline of water levels was about 4.4 feet from the lowest of 1953 to the lowest of 1954. The greatest decline was in the area of the Thomas H. Allen pumping station, which has been in operation since 1953. The decline in the area was about 11 feet in 1954. Figure 43 shows the fluctuations of water levels in three wells screened in the "500-foot" sand. The water levels in observation wells screened in the "1,400-foot" sand of the Memphis area averaged about 3.7 feet lower than the lowest levels in 1953. There was a slight increase in pumpage attributed primarily to drought conditions. The general trend of the water level was not changed. Figure 44 shows the water-level fluctuations in four observation wells screened in the "1,400-foot" sand. Decline of water levels in wells in central and east Tennessee is attributed to drought conditions and natural discharge.

## Well-Numbering System

Each well number is made up of three items, the first and second of which are separated by a colon, and the second and third by a hyphen. The first item represents the county in which the well is situated, the second is the number assigned the owner or well field, and the third is the number of the well itself. The first item necessitated numbering all the counties in the State in alphabetical order, starting with Anderson County as 1, Bedford County as 2, and so on. To provide for the second item, the owners or the well fields were assigned numbers in consecutive order as the wells were recorded by the Geological Survey. The third item, the number of the well, corresponds to the number assigned the well by the owner. For example, the number 79:7-17 indicates county 79, Shelby County; well field 7, the Parkway field of the Memphis Light, Gas and Water Division; and well 17 in that field, as numbered by the owner. The Auction Avenue well field of the Memphis Light, Gas and Water Division, where the water of about 100 wells flowed through tunnels into the so-called "wet well", is field 3 in Shelby County, and the shafts that were used to inspect the tunnels and drifts of that field, 25 in all, have been lettered to differentiate them from the wells. (See 79:3-A.)

## Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

## Bradley County

6:182-1. F. G. Trehwhitt. Near Cleveland. Lat. 35°05'03", long. 84°50'50". Dug unused water-table well in Conasauga shale, diameter 38 inches, depth 30 feet. Land-surface datum is about 850 feet above msl. Highest water level 7.82 below lsd, Mar. 30, 1951; lowest 24.97 below lsd, Dec. 7-8, 1954. Records available: 1950-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.38	21.28	19.93	16.57	15.97	17.68	19.83	21.50	22.35	23.42	24.31	24.90
2	24.37	21.26	19.77	16.38	16.02	17.76	19.88	21.52	22.39	23.45	24.34	24.92
3	24.36	21.23	19.49	16.12	16.10	17.84	19.94	21.57	22.42	23.48	24.35	24.93
4	24.36	21.21	19.38	16.05	16.17	17.99	19.97	21.62	22.47	23.51	24.37	24.95
5	24.35	21.24	19.19	16.11	16.20	18.07	20.01	21.65	22.51	23.55	24.40	24.95



6:182-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	24.35	21.26	19.07	16.12	16.25	18.13	20.07	21.68	22.54	23.58	24.42	24.95
7	24.35	21.30	19.01	16.16	16.30	18.17	20.13	21.70	22.57	23.62	24.45	24.97
8	24.35	21.30	18.95	16.28	16.38	18.23	20.20	21.74	22.60	23.65	24.51	24.97
9	24.36	21.26	18.88	16.39	16.50	18.30	20.27	21.49	22.62	23.67	24.53	.....
10	24.37	21.25	18.82	16.43	16.52	18.36	20.35	21.51	22.65	23.70	24.55	.....
11	24.39	21.25	18.83	16.42	16.55	18.41	20.40	21.53	22.70	23.72	24.57	.....
12	24.39	21.38	18.87	16.50	16.58	18.52	20.44	21.57	22.75	23.75	24.58	.....
13	24.42	21.41	18.90	16.50	16.60	18.57	20.50	21.62	22.79	23.80	24.60	.....
14	24.40	21.41	19.05	16.43	16.75	18.64	20.56	21.65	22.82	23.82	24.62	.....
15	24.37	21.40	19.10	16.47	16.80	18.69	20.70	21.69	22.85	23.85	24.63	.....
16	23.48	21.40	19.10	16.46	16.83	18.80	.....	21.71	22.89	23.88	24.64	h24.74
17	23.55	21.37	19.05	15.48	16.80	18.90	.....	21.76	22.93	23.91	24.65	24.73
18	23.55	21.33	18.88	15.00	16.78	18.96	.....	21.80	22.95	23.95	24.67	24.63
19	23.53	21.20	18.76	14.85	16.82	19.03	.....	21.83	22.99	23.97	24.69	24.63
20	23.47	21.09	18.71	14.97	16.97	19.07	.....	21.87	23.02	24.00	24.71	24.61
21	22.70	21.02	18.76	15.02	17.04	19.13	.....	21.92	23.07	24.03	24.73	24.57
22	22.25	21.00	18.76	15.07	17.09	19.17	.....	21.97	23.10	24.06	24.75	24.53
23	21.78	20.98	18.67	15.18	17.17	19.25	.....	22.01	23.15	24.09	24.77	24.50
24	21.77	20.93	18.64	15.28	17.22	19.32	.....	22.04	23.18	24.11	24.78	24.47
25	21.70	20.86	18.43	15.36	17.27	19.37	.....	22.07	23.20	24.13	24.80	24.46
26	21.62	20.72	17.53	15.40	17.34	19.43	.....	22.10	23.24	24.16	24.83	24.47
27	21.45	20.65	17.39	15.42	17.37	19.49	21.26	22.16	23.27	24.18	24.84	24.48
28	21.42	20.53	17.13	15.50	17.40	19.58	21.30	22.20	23.31	24.20	24.85	24.49
29	21.35	20.65	16.99	15.71	17.55	19.65	21.36	22.23	23.35	24.23	24.87	24.49
30	21.32	20.65	16.78	15.87	17.64	19.74	21.41	22.26	23.38	24.26	24.88	24.35
31	21.28	20.65	16.78	15.87	17.69	19.74	21.46	22.31	23.41	24.29	24.88	24.32

h Tape measurement.

Campbell County

7:1-6. Jellico Waterworks. Lat. 36°35', long. 84°04'. Drilled unused well, diameter 12 inches, depth 620 feet. Land-surface datum is about 1,020 feet above msl. Highest water level 70.81 below lsd, Feb. 2, 1950; lowest 87.04 below lsd, Aug. 10, 1949. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.98	74.65	74.84	h74.93	75.11	75.32	76.18	76.63	77.16	77.43	76.80	.....
2	76.97	74.64	74.39	74.91	75.08	75.29	76.21	76.61	77.16	77.25	76.82	.....
3	77.09	74.77	h74.24	75.00	75.03	75.23	76.21	76.63	77.16	76.89	76.83	.....
4	77.09	74.82	74.25	74.99	75.04	75.33	76.20	76.73	77.21	76.70	h76.67	.....
5	76.98	74.86	74.29	75.00	74.99	75.39	h76.16	76.66	77.26	76.70	76.80	76.67
6	77.11	75.02	74.39	74.97	74.99	75.40	76.25	76.67	77.26	76.78	76.77	76.67
7	77.11	75.07	74.44	74.95	74.99	75.40	76.24	76.72	77.26	76.83	76.85	h76.57
8	77.09	75.03	74.50	75.02	74.98	75.41	76.22	76.73	77.26	76.85	76.88	76.49
9	77.04	74.94	74.49	75.02	74.91	75.47	76.26	76.75	77.28	76.78	76.89	76.42
10	77.01	74.99	74.53	75.04	74.92	75.47	76.31	76.80	77.29	76.72	76.94	76.46
11	76.95	75.28	74.65	75.07	74.87	75.51	76.35	76.84	77.41	76.69	76.94	76.46
12	77.10	75.31	74.71	75.14	74.87	75.55	76.34	76.89	77.46	76.76	h76.80	76.42
13	77.05	75.29	74.74	75.12	74.85	75.60	h76.29	76.90	77.46	76.80	76.76	76.28
14	76.96	75.24	74.85	75.02	74.91	75.61	76.36	76.93	77.46	76.82	76.75	76.19
15	76.85	75.25	74.93	75.00	74.96	75.59	76.39	76.91	77.47	76.69	76.74	76.20
16	76.30	75.25	74.95	74.92	76.96	75.63	76.45	76.89	77.50	76.50	76.69	76.32
17	75.27	75.27	74.95	74.92	74.95	75.68	76.45	76.94	77.51	76.53	76.72	76.19
18	75.00	75.27	74.84	74.84	74.93	75.70	76.45	76.92	77.53	76.55	76.73	76.00
19	74.87	75.20	74.78	74.83	74.99	75.71	76.46	76.96	77.52	76.58	76.75	75.88
20	74.86	75.14	74.92	74.87	75.04	75.73	76.48	76.96	77.56	76.55	76.84	75.86
21	74.65	75.17	75.03	74.84	75.09	75.73	76.51	76.99	77.46	76.54	76.89	75.86
22	73.54	75.24	75.03	74.84	75.10	75.75	76.48	77.05	77.48	76.62	76.89	h75.81
23	73.31	75.22	75.00	h74.85	75.13	75.81	76.42	77.09	77.47	76.70	76.87	75.93
24	73.65	75.12	75.00	76.88	75.13	75.86	76.48	77.05	77.45	76.69	76.82	76.05
25	74.79	75.06	74.92	74.90	75.13	75.87	76.51	77.00	77.42	76.66	76.92	76.05
26	74.01	75.10	74.88	74.90	75.19	75.92	76.54	77.03	77.41	76.65	76.92	76.03
27	74.26	75.09	74.77	74.87	75.22	h75.90	76.53	77.08	77.41	76.69	.....	76.04
28	74.32	75.05	74.70	74.89	75.19	76.04	h76.54	77.12	77.46	76.69	.....	75.99
29	74.39	75.05	74.70	75.00	75.31	76.07	76.62	77.07	77.50	76.65	h76.89	75.79
30	74.58	75.05	74.77	75.05	75.40	76.11	76.66	77.03	77.50	76.74	.....	73.65
31	74.66	75.05	74.88	75.05	75.41	76.11	76.65	77.11	77.50	76.78	.....	73.34

h Tape measurement.

## Carroll County

9:4-2. City of Huntingdon. Fifth Ave. East. Lat. 36°00', long. 88°26'. Drilled unused artesian well in sand of Ripley formation, reported diameter 8 inches, reported depth 269 feet. Highest water level 0.84 below lsd, Apr. 24, 1952; lowest 6.57 below lsd, June 10, 1948. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	2.61	Apr. 5	3.02	July 7	3.24	Oct. 5	3.30
Feb. 2	2.24	May 5	2.44	Aug. 4	3.42	Nov. 3	3.57
Mar. 4	2.27	June 7	2.67	Sept. 2	3.37	Dec. 2	3.28

## Fayette County

24:10-1. Tennessee Division of Geology and U. S. Geol. Survey. Near Braden. Lat. 35°22'26", long. 89°32'52". Drilled observation artesian well in sand of Wilcox group, diameter 6 to 4 inches, depth 1,025 feet, screen 1,008-1,025. Land-surface datum is 317.5 feet above msl. Highest water level 64.89 below lsd, Aug. 31, 1949; lowest 70.34 below lsd, Dec. 6, 10-11, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.37	69.22	69.05	69.21	69.05	69.02	69.32	69.47	69.66	69.86	.....	.....
2	69.41	69.13	69.05	69.16	69.01	69.00	69.32	69.41	69.70	69.86	.....	h70.31
3	69.42	69.09	69.25	69.18	69.02	69.00	69.30	69.45	69.66	69.86	h70.21	70.26
4	69.35	69.13	69.25	69.13	69.05	69.07	69.29	69.48	69.69	69.87	70.15	70.20
5	69.33	69.13	69.20	69.13	69.01	69.10	69.27	69.47	69.72	69.92	.....	70.30
6	69.40	69.21	69.17	69.11	68.96	69.09	69.28	69.46	69.72	70.02	.....	70.34
7	69.40	69.26	69.14	69.17	69.00	69.13	69.26	69.44	69.72	70.02	.....	70.31
8	69.35	69.24	69.14	69.22	69.02	69.13	69.26	69.37	69.66	70.02	.....	70.22
9	69.31	69.16	69.05	69.19	69.03	69.13	69.29	69.44	69.66	69.99	.....	70.33
10	69.28	69.00	68.98	69.17	69.10	69.15	69.31	69.48	69.66	69.94	.....	70.34
11	69.33	69.29	68.90	69.20	69.07	69.14	69.32	69.47	69.71	69.87	.....	70.34
12	69.47	69.32	68.91	69.24	69.04	69.17	69.33	69.49	69.75	69.91	.....	70.29
13	69.46	69.23	69.08	69.17	69.03	69.17	69.30	69.53	69.73	69.92	.....	70.20
14	69.34	69.18	69.19	69.08	69.02	69.16	69.33	69.56	69.73	70.00	.....	70.20
15	69.34	69.18	69.28	69.05	69.07	69.14	69.35	69.56	69.72	.....	.....	70.19
16	69.33	69.18	69.32	69.06	69.06	69.17	69.38	69.54	69.75	.....	.....	70.20
17	69.33	69.19	69.28	69.11	69.05	69.19	69.37	69.53	69.76	.....	.....	70.15
18	69.33	69.17	69.15	69.08	69.03	69.20	69.35	69.54	69.75	.....	.....	70.21
19	69.18	69.16	69.13	69.15	69.03	69.20	69.37	69.57	69.73	.....	.....	70.29
20	69.17	68.98	69.09	69.19	69.10	69.20	69.37	69.57	69.72	.....	.....	70.29
21	69.18	69.08	69.17	69.15	69.12	69.19	69.35	69.54	69.77	.....	.....	70.26
22	69.16	69.12	69.14	69.13	69.13	69.19	69.33	69.57	69.81	.....	.....	70.25
23	69.16	69.06	69.08	69.14	69.10	69.21	69.36	69.63	69.82	.....	.....	70.20
24	69.13	69.02	69.01	69.15	69.10	69.23	69.37	69.63	69.85	.....	.....	70.30
25	69.15	68.97	69.02	69.15	69.09	69.23	69.40	69.57	69.82	.....	.....	70.32
26	69.14	68.99	69.12	69.13	69.09	69.24	69.43	69.55	69.80	.....	.....	70.31
27	69.24	68.95	69.10	69.07	69.08	69.24	69.43	69.58	69.78	.....	.....	70.31
28	69.24	69.03	69.05	69.05	69.03	69.25	69.44	69.62	69.78	.....	.....	70.25
29	69.17	.....	69.02	69.00	69.02	69.27	69.45	69.60	69.81	.....	.....	70.10
30	69.25	.....	69.07	69.03	69.08	69.30	69.48	69.58	69.85	.....	.....	.....
31	69.26	.....	69.13	.....	69.06	.....	69.49	69.64	.....	.....	.....	.....

h Tape measurement.

24:10-2. Tennessee Division of Geology and U. S. Geol. Survey. Near Braden. Lat. 35°22'26", long. 89°32'52". Drilled observation artesian well in sand of Claiborne group, diameter 6 to 4 inches, depth 365 feet, screen 345-365. Land-surface datum is 317.2 feet above msl. Highest water level 37.25 below lsd, Mar. 10, 1952; lowest 40.54 below lsd, Nov. 29-30, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.65	39.49	39.36	39.57	39.46	39.50	39.76	39.92	40.11	40.23	40.38	40.48
2	39.60	39.40	39.36	39.53	39.44	39.47	39.76	39.87	40.12	40.23	40.43	40.47
3	39.60	39.31	39.54	39.53	39.44	39.50	39.74	39.90	40.10	40.23	40.43	40.41
4	39.62	39.34	39.55	39.50	39.49	39.56	39.73	39.93	40.12	40.23	40.36	40.37
5	39.63	39.36	39.51	39.49	39.45	39.57	39.71	39.93	40.15	40.28	40.40	40.43

24:10-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	39.68	39.45	39.46	39.48	39.41	39.57	39.72	39.92	40.14	40.34	40.34	40.51
7	39.68	39.51	39.42	39.46	39.41	39.57	39.73	39.85	40.13	40.34	40.37	40.50
8	39.64	39.51	39.37	39.57	39.44	39.57	39.74	39.88	40.08	40.34	40.41	40.42
9	39.61	39.35	39.33	39.56	39.47	39.57	39.77	39.93	40.09	40.30	40.42	40.47
10	39.57	39.30	39.25	39.53	39.51	39.59	39.79	39.96	40.10	40.23	40.45	40.48
11	39.65	39.55	39.21	39.54	39.48	39.58	39.79	39.96	40.14	40.19	40.46	40.48
12	39.76	39.60	39.26	39.58	39.43	39.58	39.80	39.98	40.17	40.24	40.45	40.43
13	39.76	39.55	39.41	39.54	39.40	39.60	39.72	40.00	40.15	40.25	40.40	40.37
14	39.67	39.46	39.51	39.45	39.44	39.60	39.80	40.02	40.15	40.30	40.36	40.37
15	39.52	39.43	39.60	39.40	39.48	39.59	39.81	40.03	40.15	40.29	40.34	40.39
16	39.56	39.47	39.62	39.42	39.48	39.59	39.84	40.01	40.16	40.33	40.28	40.40
17	39.62	39.51	39.58	39.48	39.47	39.63	39.84	40.00	40.17	40.36	40.31	40.37
18	39.61	39.50	39.45	39.47	39.47	39.66	39.82	40.01	40.16	40.41	40.31	40.41
19	39.52	39.42	39.30	39.51	39.47	39.65	39.84	40.03	40.14	40.41	40.28	40.48
20	39.45	39.26	39.43	39.56	39.52	39.65	39.83	40.01	40.13	40.38	40.35	40.48
21	39.49	39.37	39.49	39.55	39.54	39.64	39.82	39.99	40.18	40.34	40.35	40.46
22	39.51	39.40	39.46	39.52	39.55	39.64	39.80	40.04	40.22	40.37	40.39	40.45
23	39.51	39.35	39.40	39.52	39.53	39.65	39.80	40.07	40.23	40.39	40.38	40.41
24	39.46	39.30	39.36	39.53	39.53	39.68	39.84	40.07	40.23	40.38	40.36	40.50
25	39.44	39.23	39.40	39.53	39.52	39.68	39.86	40.03	40.22	40.35	40.41	40.50
26	39.43	39.24	39.48	39.51	39.52	39.68	39.89	40.01	40.19	40.32	40.41	40.50
27	39.51	39.20	39.47	39.46	39.51	39.69	39.89	40.04	40.17	40.34	40.32	40.49
28	39.53	39.31	39.43	39.44	39.44	39.69	39.90	40.07	40.17	40.33	40.40	40.44
29	39.47		39.39	39.38	39.47	39.72	39.90	40.07	40.20	40.31	40.54	40.41
30	39.50		39.44	39.44	39.53	39.74	39.94	40.05	40.23	40.33	40.54	40.45
31	39.53		39.51		39.53		39.94	40.09		40.34		40.45

Henry County

40:1-5. Paris Board of Public Utilities. Fentress and West Blythe Sts. Lat. 36°18', long. 88°20'. Drilled unused artesian well in sand of Ripley formation, diameter 8 inches, depth 425 feet. Land-surface datum is about 510 feet above msl. Highest water level 105.68 below lsd, Mar. 30, 1950; lowest 130.32 below lsd, Nov. 27, 1953. Records available: 1945, 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	111.26	Apr. 5	110.11	July 7	114.85	Oct. 5	113.12
Feb. 2	119.42	May 5	111.02	Aug. 4	112.56	Dec. 2	111.60
Mar. 4	110.98	June 7	110.82	Sept. 2	112.98		

Madison County

57:5-6. City of Jackson. Mobile and Magnolia Sts. Lat. 35°36'18", long. 88°48'26". Drilled observation artesian well, diameter 2 inches, depth 149 feet. Land-surface datum is 360.4 feet above msl. Highest water level 25.12 below lsd, June 2, 1949; lowest 63.98 below lsd, Aug. 7, 1952. Records available: 1944-45, 1947-54.

Jan. 4	34.64	May 5	27.02	Aug. 4	59.44	Nov. 3	30.46
Mar. 5	51.71	June 7	42.96	Sept. 2	45.66	Dec. 2	42.43
Apr. 5	34.13	July 7	48.40				

57:36-1. Tennessee Division of Geology and U. S. Geol. Survey. Near Claybrook. Lat. 35°42'26", long. 88°37'47". Drilled observation artesian well in sand of Ripley formation, diameter 6 to 4 inches, depth 659 feet, screen 639-659. Land-surface datum is 562.7 feet above msl. Highest water level 124.50 below lsd, Mar. 10, 1952; lowest 127.78 below lsd, Nov. 29-30, 1954. Records available: 1949-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	126.62	126.32	126.25	126.46	126.39	.....	.....	127.23	127.51	127.64	127.71	127.75
2	126.60	126.25	126.25	126.44	126.39	.....	.....	127.18	127.52	127.64	127.71	127.75
3	126.64	126.21	126.36	126.45	126.36	.....	.....	127.20	127.52	127.64	127.70	127.71
4	126.64	126.25	126.37	126.41	126.39	.....	.....	127.28	127.54	127.65	127.66	127.66
5	126.57	126.25	126.40	126.45	126.38	.....	.....	127.27	127.56	127.65	127.70	127.66
6	126.62	126.32	126.41	126.42	126.36	.....	.....	127.25	127.56	127.65	127.68	127.73
7	126.62	126.35	126.35	126.39	126.36	126.61	126.96	127.27	127.57	127.65	127.70	127.72
8	126.61	126.34	126.33	126.48	126.39	126.62	126.95	127.27	127.50	127.65	127.71	127.65
9	126.57	126.21	126.32	126.48	126.43	126.65	127.00	127.31	127.50	127.63	127.72	127.68
10	126.56	126.20	126.26	126.47	126.45	126.65	127.03	127.34	127.49	127.61	127.76	127.70

## 57:36-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	126.56	126.40	126.21	126.45	126.45	126.65	127.03	127.34	127.52	127.55	127.77	127.70
12	126.63	126.42	126.22	126.49	126.42	126.70	127.06	127.36	127.55	127.55	127.76	127.64
13	126.63	126.37	126.32	126.48	126.36	126.70	127.03	127.38	127.57	127.55	127.73	127.56
14	126.62	126.33	126.41	126.41	126.41	126.70	127.07	127.40	127.56	127.55	127.70	127.56
15	126.56	126.32	126.49	126.38	126.42	126.71	127.08	127.40	127.57	127.55	127.68	127.58
16	126.56	126.32	126.52	126.34	126.42	126.71	127.12	127.40	127.58	127.56	127.62	127.58
17	126.56	126.34	126.51	126.39	126.42	126.72	127.11	127.39	127.58	127.61	127.63	127.54
18	126.43	126.32	126.42	126.39	126.42	126.73	127.11	127.40	127.56	127.62	127.64	127.57
19	126.37	126.29	126.32	126.43	126.47	126.73	127.12	127.41	127.56	127.62	127.57	127.64
20	126.35	126.21	126.38	126.48	126.50	126.74	127.12	127.41	127.57	127.62	127.63	127.64
21	126.29	126.27	126.42	126.45	126.51	126.92	127.07	127.40	127.63	127.62	127.63	127.63
22	126.26	126.28	126.42	126.44	126.51	126.92	127.12	127.43	127.64	127.62	127.66	127.61
23	126.28	126.22	126.37	126.45	126.51	126.92	127.15	127.46	127.64	127.63	127.66	127.61
24	126.26	126.21	126.32	126.46	126.52	126.92	127.18	127.47	127.65	127.63	127.60	127.67
25	126.27	126.17	126.31	126.46	126.52	126.92	127.19	127.47	127.64	127.63	127.66	127.67
26	126.27	126.20	126.38	126.46	126.49	126.92	127.19	127.43	127.62	127.62	127.66	127.68
27	126.31	126.15	126.38	126.43	126.53	126.92	127.20	127.42	127.60	127.62	127.65	127.68
28	126.31	126.21	126.34	126.41	126.55	.....	127.22	127.44	127.60	127.62	127.70	127.63
29	126.27		126.33	126.37	.....	.....	127.25	127.47	127.63	127.58	127.78	127.43
30	126.32		126.35	126.37	.....	.....	127.25	127.47	127.64	127.59	127.78	127.56
31	126.32		126.42		.....	.....	127.24	127.47		127.63		127.56

h Tape measurement.

57:36-2. Tennessee Division of Geology and U. S. Geol. Survey. Near Jackson. Lat. 35°37'33", long. 88°50'49". Drilled observation artesian well in sand of Ripley formation, diameter 6 to 4 inches, depth 780 feet, screen 761-780. Land-surface datum is 352.1 feet above msl. Highest water level 51.5 above lsd, June 30, 1950; lowest 45.5 above lsd, Jan. 1, 1954. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	+45.5	Apr. 2	+47.5	July 2	+48.5	Oct. 1	+49.0
8	46.0	9	48.0	9	48.5	8	48.5
15	46.0	16	48.0	16	48.0	15	49.0
22	46.0	23	48.0	23	48.0	22	48.5
29	46.0	30	48.0	30	48.0	29	48.5
Feb. 5	46.0	May 7	48.0	Aug. 6	48.5	Nov. 5	48.5
12	46.0	14	48.0	13	48.5	12	48.5
19	46.0	21	48.0	20	48.5	19	48.5
26	46.0	28	48.0	27	48.5	26	48.5
Mar. 5	46.0	June 4	48.0	Sept. 3	48.5	Dec. 3	48.5
12	46.0	11	48.0	10	48.5	10	49.0
19	47.5	18	48.0	17	48.0	17	48.5
26	47.5	25	48.5	24	49.0	24	49.0

## Shelby County

79:1-1. Memphis Light, Gas and Water Division. Lat. 35°14'35", long. 90°00'52". Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 434 feet. Land-surface datum is 228.7 feet above msl. Highest water level 12.65 below lsd, Sept. 3, 1940; lowest 41.42 below lsd, Oct. 8, 1954. Records available: 1940-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.97	36.64	36.72	.....	36.04	36.37	38.75	40.09	39.95	41.08	39.63	39.06
2	37.01	36.47	36.75	.....	36.02	36.35	38.86	40.04	39.98	41.12	39.73	39.08
3	37.06	36.41	36.92	.....	35.93	36.44	39.00	39.89	39.98	41.16	39.76	39.11
4	37.02	36.47	36.94	.....	35.95	36.56	39.09	39.81	40.05	41.15	39.78	39.12
5	36.93	36.53	36.95	h36.04	35.92	36.65	39.08	39.96	40.11	41.16	39.81	39.17
6	37.09	36.76	36.96	36.00	35.97	.....	38.95	40.10	40.06	41.31	39.65	39.18
7	37.17	36.87	36.93	36.00	36.10	h36.56	38.74	40.09	39.91	41.40	39.71	39.09
8	37.30	36.87	36.85	36.13	36.14	.....	38.70	40.18	39.74	41.42	39.75	38.99
9	37.38	37.00	36.65	36.13	36.18	.....	38.78	40.25	39.83	41.34	39.79	39.14
10	37.33	36.72	36.44	36.20	36.13	.....	.....	40.24	40.07	41.16	39.87	39.20
11	37.28	37.02	36.35	36.27	35.93	.....	.....	40.26	40.27	40.96	39.89	39.22
12	37.37	37.08	36.38	36.29	35.76	.....	h38.87	40.31	40.34	40.77	39.89	39.19
13	37.38	37.05	36.51	36.22	35.68	.....	38.84	40.44	40.34	40.79	39.86	39.12
14	37.36	37.04	36.54	.....	35.73	h36.93	38.88	40.53	40.44	40.82	39.82	38.97
15	37.29	37.03	36.56	.....	35.80	.....	38.95	40.52	40.53	40.82	39.70	38.98

## 79:1-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	37.30	36.94	36.51	.....	35.82	.....	39.08	40.44	40.64	40.74	39.53	39.03
17	37.30	36.70	36.39	.....	35.76	.....	39.17	40.29	40.73	40.77	39.44	39.15
18	37.15	36.60	36.24	.....	35.60	.....	39.22	40.22	40.79	40.72	39.42	39.31
19	37.25	36.56	36.17	h36.32	35.51	.....	39.20	40.22	40.85	40.61	39.48	39.36
20	37.26	36.72	36.37	36.30	35.57	.....	39.15	40.18	40.86	40.51	39.60	39.35
21	37.29	36.76	36.46	36.20	35.67	h38.00	39.19	40.23	40.89	40.45	39.62	39.12
22	37.19	36.71	36.44	36.08	35.78	.....	39.31	40.20	40.95	40.48	39.63	39.11
23	37.04	36.62	36.30	36.13	.....	.....	39.48	40.15	40.96	40.52	39.58	39.24
24	37.14	36.65	36.21	36.21	h35.87	.....	39.63	40.01	40.94	40.47	39.47	39.30
25	37.16	36.63	36.28	36.25	.....	.....	39.70	39.92	40.89	40.25	39.47	39.29
26	37.00	36.70	36.36	36.21	.....	.....	39.74	40.00	40.84	39.92	39.45	39.09
27	36.90	36.69	36.36	36.06	.....	.....	39.69	40.11	40.75	39.70	39.22	38.79
28	36.86	36.72	36.37	35.94	.....	h38.33	39.72	40.16	40.62	39.60	39.22	38.38
29	36.66		36.30	35.86	.....	38.47	39.80	40.14	40.76	39.46	39.22	38.12
30	36.73		36.20	35.91	.....	38.61	39.96	40.08	40.94	39.49	39.17	38.20
31	36.73		.....	.....	h36.38	.....	40.04	39.93	.....	39.60	.....	38.20

h Tape measurement.

## 79:1-2. Memphis Light, Gas and Water Division. Lat. 35°13'25", long. 89°53'57".

Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 344 feet. Land-surface datum is 299.8 feet above msl. Highest water level 63.33 below lsd, Sept. 27, 1940; lowest 86.52 below lsd, Oct. 9, 1954. Records available: 1940-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	83.74	84.25	83.52	83.46	83.21	83.24	84.56	85.68	86.08	86.19	86.08	85.61
2	83.71	84.15	83.52	83.41	83.21	83.20	84.62	85.66	86.08	86.23	86.11	85.58
3	83.78	84.08	83.62	83.41	83.17	83.15	84.67	85.67	86.09	86.28	86.10	85.55
4	83.78	84.07	83.63	83.39	83.18	83.20	84.70	85.68	86.14	86.32	85.97	85.48
5	83.82	84.07	83.59	83.41	83.13	83.24	84.70	85.68	86.20	86.33	86.03	85.52
6	83.90	84.08	83.58	83.39	83.12	83.26	84.69	85.67	86.20	86.41	86.00	85.59
7	83.90	84.12	83.58	83.37	83.20	83.27	84.65	85.57	86.15	86.46	85.95	85.57
8	83.87	84.10	83.57	83.47	83.25	83.25	84.61	85.60	86.05	86.50	85.95	84.44
9	83.86	83.87	83.56	83.47	83.29	83.18	84.57	85.67	86.01	86.52	85.90	84.46
10	83.84	83.86	83.49	83.46	83.30	83.21	84.56	85.68	85.97	86.50	85.87	84.49
11	83.92	84.01	83.42	83.46	83.23	83.25	84.54	85.69	86.03	86.45	85.89	85.50
12	84.04	84.04	83.45	83.50	83.13	83.34	84.51	85.73	86.09	86.37	85.88	84.47
13	84.04	84.02	83.61	83.44	83.03	83.42	84.48	85.83	86.10	86.36	85.85	85.40
14	83.99	83.90	83.71	83.33	83.05	83.46	84.46	85.91	86.11	86.39	85.80	85.38
15	83.87	83.81	83.79	83.23	83.10	83.46	84.47	85.98	86.09	.....	85.79	85.37
16	83.79	83.75	83.80	83.21	83.12	83.49	84.51	85.99	86.12	.....	85.72	85.38
17	83.81	83.68	83.77	83.27	83.10	83.61	84.54	85.96	86.14	.....	85.68	85.38
18	83.78	83.54	83.65	83.27	83.09	83.72	84.57	85.95	86.16	h86.42	85.67	85.45
19	83.75	83.34	83.48	83.34	83.08	83.82	84.61	85.96	86.19	86.43	85.62	85.53
20	83.81	83.23	83.54	83.35	83.14	83.90	84.62	85.97	86.20	86.40	85.71	85.53
21	83.88	83.33	83.61	83.35	83.18	83.97	84.65	85.96	86.24	86.34	85.71	85.49
22	83.80	83.36	83.59	83.33	83.20	84.00	84.73	86.03	86.30	86.34	85.72	85.46
23	83.78	83.31	83.53	83.34	83.21	84.06	84.83	86.07	86.31	86.40	85.71	85.49
24	83.80	83.31	83.48	83.37	83.19	84.10	85.00	86.05	86.31	86.41	85.61	85.57
25	83.89	83.32	83.48	83.38	83.17	84.15	85.12	86.00	86.29	86.38	85.63	85.58
26	83.94	83.39	83.56	83.37	83.15	84.23	85.22	85.98	86.27	86.29	85.64	85.57
27	84.14	83.39	83.54	83.34	83.15	84.31	85.28	86.02	86.21	86.23	85.56	85.55
28	84.15	83.47	83.51	83.28	83.10	84.36	85.35	86.10	86.13	86.20	85.58	85.38
29	84.16		83.47	83.16	83.18	84.42	85.47	86.12	86.11	86.08	85.68	85.12
30	84.26		83.41	83.17	83.26	84.48	85.56	86.10	86.16	86.08	85.69	85.15
31	84.27		83.43		83.28		85.64	86.08		86.08		85.12

h Tape measurement.

## 79:1-3. Memphis Light, Gas and Water Division. Lat. 35°08'59", long. 89°47'59".

Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 384 feet. Land-surface datum is 330.4 feet above msl. Highest water level 74.08 below lsd, Dec. 27, 1940; lowest 81.80 below lsd, Nov. 30, 1954. Records available: 1940-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	80.33	79.79	79.62	80.06	79.97	80.06	80.65	80.88	81.29	.....	81.54	81.70
2	80.26	79.68	79.62	80.00	80.03	80.04	80.52	h80.82	81.29	.....	81.67	81.69
3	80.36	79.68	79.86	80.00	80.07	80.05	80.52	.....	81.26	.....	81.67	81.59
4	80.36	79.73	79.87	79.95	80.07	80.11	80.49	.....	81.29	h81.40	81.51	81.52
5	80.29	79.76	79.79	79.96	79.99	80.13	80.49	.....	81.32	81.42	81.58	81.58

79-1-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	80.36	79.87	79.71	79.94	79.91	80.11	80.51	.....	81.32	81.52	81.56	81.71
7	80.37	79.95	79.66	79.93	79.96	80.08	80.51	.....	81.16	81.55	81.54	81.71
8	80.29	79.94	79.62	80.09	79.97	80.07	80.51	.....	.....	81.52	81.59	81.59
9	80.26	79.73	79.58	80.07	80.01	80.05	80.54	h80.94	81.15	81.47	81.60	81.60
10	80.22	79.70	79.51	80.03	80.00	80.07	80.58	80.97	.....	81.41	81.62	81.65
11	80.34	80.05	79.50	.....	79.94	80.06	80.59	80.95	81.31	h81.29	81.66	81.64
12	80.47	80.11	79.63	h80.09	79.87	80.09	h80.59	80.96	81.34	.....	81.64	81.58
13	80.46	80.05	79.83	80.07	h79.83	80.12	.....	81.01	81.28	.....	81.57	81.52
14	80.31	79.91	79.94	79.93	.....	80.13	.....	81.06	81.33	.....	81.51	81.52
15	80.14	79.88	80.03	79.90	.....	80.15	.....	81.07	81.31	.....	81.48	81.54
16	80.14	79.94	80.05	79.96	.....	80.17	80.74	81.02	81.35	.....	81.44	81.56
17	80.20	79.97	79.98	80.03	h79.91	80.24	80.76	81.02	.....	.....	81.49	81.53
18	80.16	79.90	79.80	80.00	79.97	80.28	80.77	81.03	81.30	h81.54	81.50	81.58
19	80.08	79.69	79.67	80.06	79.98	80.28	h80.73	81.13	81.29	81.60	81.47	81.66
20	79.94	79.49	79.86	80.09	80.07	80.28	80.76	.....	81.43	81.54	81.56	81.67
21	79.99	79.57	79.93	80.05	.....	80.25	80.76	.....	.....	81.48	81.57	81.62
22	79.90	79.61	79.89	80.01	.....	80.28	80.72	.....	81.44	81.52	81.59	81.59
23	79.90	79.53	79.82	.....	.....	.....	80.73	h81.13	81.43	81.55	81.59	81.58
24	79.81	79.44	79.79	.....	h80.06	h80.31	.....	.....	81.41	81.54	81.56	81.67
25	79.77	79.37	79.83	.....	80.06	.....	.....	.....	81.40	81.50	81.60	81.68
26	79.75	79.40	79.97	h79.98	80.08	.....	h80.62	.....	81.37	81.48	81.61	81.66
27	79.84	79.37	79.95	79.98	80.08	.....	80.81	.....	81.33	.....	81.52	81.64
28	79.85	79.54	79.89	79.98	80.01	h80.45	80.83	.....	81.34	81.46	81.58	81.56
29	79.76	79.84	h79.99	80.06	.....	80.06	80.86	.....	81.42	81.42	81.78	81.51
30	79.80	.....	79.91	79.97	80.12	80.57	80.91	h81.16	.....	81.50	81.80	81.65
31	79.82	.....	80.00	.....	80.11	.....	80.92	81.26	.....	81.54	.....	81.65

h Tape measurement.

79-1-4. Memphis Light, Gas and Water Division. Lat. 35°03'03", long. 89°51'37". Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 578 feet. Land-surface datum is 332.4 feet above msl. Highest water level 78.00 below lsd, Dec. 30, 1940; lowest 87.11 below lsd, Oct. 19-20, 1954. Records available: 1940-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	85.66	85.63	85.48	85.70	85.66	85.80	.....	86.64	86.84	87.00	87.02	87.10
2	85.63	85.58	85.46	85.71	85.66	85.80	.....	86.64	86.86	87.01	87.08	87.10
3	85.64	85.49	85.62	85.70	85.72	85.73	.....	86.62	86.87	87.01	87.10	87.09
4	85.64	85.47	85.69	85.69	85.76	85.81	.....	86.63	86.88	87.01	87.10	87.02
5	85.59	85.45	85.69	85.66	85.77	85.86	h86.36	86.64	86.90	87.01	87.04	86.95
6	85.64	85.50	85.66	85.65	85.76	85.88	86.36	86.64	86.93	87.03	87.04	86.95
7	85.65	85.59	85.61	85.63	85.71	85.89	86.35	86.63	86.93	87.08	87.00	87.01
8	85.64	85.60	85.55	85.72	85.72	85.89	86.35	86.62	86.93	87.10	87.01	87.02
9	85.59	85.53	85.54	85.74	85.76	85.89	86.36	86.64	86.92	87.09	87.02	86.97
10	85.55	85.42	85.45	85.74	85.79	85.90	86.38	86.65	86.91	87.07	87.05	87.01
11	85.59	85.50	85.36	85.74	85.79	85.91	86.40	86.66	86.91	86.97	87.07	87.03
12	85.74	85.66	85.34	85.76	85.78	85.91	86.42	86.66	86.92	86.90	87.08	87.03
13	85.77	85.67	85.46	85.76	85.73	85.93	86.42	86.67	86.94	86.92	87.07	86.97
14	85.74	85.65	85.61	85.69	85.70	85.95	86.42	86.69	86.94	86.94	87.02	86.97
15	85.58	85.57	85.73	85.59	85.73	85.96	86.43	86.70	86.94	86.98	86.97	86.95
16	85.48	85.55	85.78	85.54	85.74	85.97	86.45	86.71	86.93	87.01	86.92	86.96
17	85.63	85.60	85.78	85.60	85.74	86.01	86.47	86.71	86.94	87.04	86.88	86.96
18	85.63	85.62	85.68	85.62	85.73	86.04	86.48	86.71	86.94	87.08	86.88	86.95
19	85.62	85.60	85.48	85.66	85.72	86.07	86.50	86.72	86.93	87.11	86.87	87.01
20	85.57	85.41	85.45	85.71	85.75	86.09	86.51	86.73	86.91	87.11	86.88	87.04
21	85.54	85.50	85.55	85.71	85.79	86.11	86.51	86.75	86.91	87.10	86.92	87.04
22	85.60	85.56	85.59	85.70	85.80	86.12	86.50	86.79	86.97	87.08	86.96	87.04
23	85.63	85.55	85.57	85.68	85.81	86.14	86.50	86.83	87.01	87.07	86.97	87.02
24	85.62	85.50	85.55	85.69	85.82	86.16	86.51	86.84	87.02	87.08	86.96	87.03
25	85.61	85.45	85.51	85.70	85.82	.....	86.53	86.83	87.02	87.08	86.97	87.06
26	85.58	85.36	85.63	85.70	85.81	.....	86.54	86.79	87.01	87.05	86.99	87.08
27	85.62	85.35	85.64	85.66	.....	.....	86.55	86.75	86.99	87.02	86.99	87.08
28	85.65	85.40	85.64	85.62	.....	h86.21	86.56	86.77	86.95	87.01	86.95	87.06
29	85.65	.....	85.61	85.55	.....	.....	86.57	86.78	86.93	86.97	87.00	86.92
30	85.58	.....	85.57	85.61	.....	.....	86.61	86.79	86.96	86.97	87.09	86.96
31	85.63	.....	85.63	.....	h85.80	.....	86.63	86.80	.....	86.99	.....	86.98

h Tape measurement.

79:3-A. Memphis Light, Gas and Water Division. Fifth St. and Sycamore Ave. Lat. 35°09'24", long. 90°02'33". Unused work shaft connected to artesian wells in sands of Claiborne group, diameter 30 inches, depth 98 feet. Land-surface datum is 229.7 feet above msl. Highest water level 19.09 below lsd, Apr. 1, 1933; lowest 73.4 July 30-31, Aug. 1, 1954. Records available: 1927-32, 1936-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	64.2	64.6	64.2	68.6	69.0	.....	73.4	71.9	72.1	68.8	63.8
2	.....	63.6	64.0	64.3	68.6	69.6	.....	73.3	71.9	72.1	68.5	63.8
3	.....	63.6	64.3	64.4	68.4	70.0	.....	73.1	71.9	72.1	68.6	63.9
4	h63.77	63.7	64.3	64.4	68.0	70.0	.....	73.0	71.9	71.9	68.6	63.9
5	63.8	64.0	64.4	64.2	67.7	70.0	.....	.....	71.9	71.9	68.6	63.9
6	.....	64.2	64.5	65.0	68.2	69.7	72.9	.....	71.9	72.0	68.5	63.9
7	.....	64.2	64.4	66.2	68.8	69.0	73.0	.....	71.8	72.0	68.5	63.7
8	.....	64.0	64.0	67.1	68.8	69.6	73.2	.....	71.7	71.9	68.4	64.1
9	.....	63.5	63.4	67.6	68.6	70.0	.....	h72.67	71.9	71.9	68.3	64.6
10	.....	64.0	63.5	67.7	67.7	70.2	.....	72.4	72.0	71.9	68.2	65.0
11	h65.33	64.9	63.7	67.7	66.8	70.5	.....	72.4	71.9	71.8	68.2	65.2
12	.....	65.3	64.3	67.1	67.1	70.8	h73.01	72.4	71.9	71.8	68.2	65.2
13	.....	65.3	64.8	66.2	67.2	70.9	73.0	72.5	71.8	71.8	68.1	65.0
14	.....	65.3	64.9	66.0	67.4	70.9	h72.98	72.5	71.8	71.9	67.8	64.5
15	.....	65.0	64.6	66.7	67.6	71.1	.....	72.5	71.8	71.9	67.2	.....
16	.....	64.8	64.1	67.4	67.6	71.4	.....	72.3	71.9	71.8	66.5	.....
17	.....	65.1	64.1	67.4	67.1	71.7	.....	72.2	71.9	71.8	66.5	.....
18	h65.66	65.7	64.2	67.3	66.8	71.9	.....	72.3	71.9	71.4	66.6	.....
19	65.3	65.9	64.5	66.7	67.2	72.0	.....	72.4	71.9	70.9	66.7	.....
20	.....	65.8	64.7	66.6	67.7	71.9	h73.10	72.5	71.9	70.4	66.7	h64.75
21	.....	65.7	64.7	67.3	67.9	71.8	73.1	72.5	71.9	70.0	66.6	64.6
22	.....	65.2	64.2	68.2	68.0	71.9	73.1	72.4	71.9	69.8	66.3	64.6
23	.....	64.8	63.6	69.0	68.0	71.9	73.2	h72.13	71.9	69.7	65.8	64.8
24	.....	64.9	63.4	69.2	67.5	71.9	73.2	72.0	71.9	69.5	65.5	64.8
25	h64.31	65.1	64.1	69.2	67.8	71.9	73.3	71.9	71.9	69.0	65.5	64.8
26	.....	65.2	64.5	68.8	68.7	.....	h73.08	72.0	71.8	68.4	65.3	64.1
27	.....	65.1	64.6	68.6	69.3	.....	73.0	72.0	71.8	68.7	64.6	63.1
28	.....	65.0	64.6	.....	69.7	h71.84	73.1	72.0	71.9	68.7	64.2	62.1
29	64.6	.....	64.1	68.5	69.8	72.0	73.2	71.9	71.9	68.6	63.9	62.2
30	64.8	.....	63.9	68.6	69.7	72.3	73.4	h71.86	72.0	68.9	63.7	62.4
31	64.8	.....	64.1	.....	69.2	.....	73.4	71.9	.....	69.0	.....	62.4

h Tape measurement.

79:5-193. Memphis Light, Gas and Water Division. Central Ave. and Tanglewood St. Lat. 35°07'36", long. 89°59'32". Drilled unused artesian well in sand of Claiborne group, diameter 12 inches, depth 488 feet. Land-surface datum is 286.7 feet above msl. Highest water level 58.65 below lsd, Apr. 3, 1933; lowest 120.0 below lsd, July 30-31, 1954. Records available: 1928-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	108.4	108.3	108.2	108.7	111.1	110.4	118.5	119.8	119.0	118.3	113.1	110.0
2	108.3	108.2	108.0	108.9	111.0	111.5	118.8	118.8	119.2	118.3	h113.47	110.2
3	108.1	108.1	108.4	109.1	110.6	111.2	118.8	118.5	119.2	117.8	.....	110.3
4	107.8	108.2	108.5	109.0	110.6	112.2	118.6	118.6	119.2	116.9	.....	110.3
5	107.8	108.4	108.7	108.8	110.6	112.3	117.8	118.9	118.9	117.2	.....	.....
6	108.2	108.4	108.7	109.2	110.6	112.1	116.8	118.9	118.3	117.8	.....	.....
7	108.6	108.3	108.5	109.6	110.7	111.5	116.6	118.8	117.5	118.2	.....	h109.59
8	108.8	108.1	108.2	110.1	110.7	111.9	116.9	118.6	117.7	118.2	.....	109.8
9	108.8	107.8	108.3	110.2	110.2	112.7	117.0	117.8	118.1	118.1	h111.81	110.1
10	108.8	108.0	108.6	110.2	109.2	113.3	116.9	118.0	118.3	117.5	112.2	110.3
11	108.7	108.6	108.7	109.9	108.9	113.6	116.4	118.3	118.3	116.6	112.2	110.4
12	109.1	108.9	109.0	109.1	109.3	113.7	115.9	118.7	118.1	116.4	112.2	110.3
13	109.3	108.9	109.0	108.8	109.4	113.7	116.1	118.9	117.5	116.6	112.2	109.8
14	109.3	108.4	108.9	109.1	109.6	113.8	116.6	118.9	117.4	117.0	112.2	109.8
15	109.2	108.0	108.4	109.5	109.7	114.2	117.1	118.8	117.9	117.0	111.7	110.0
16	109.1	107.9	h108.33	109.9	109.4	114.9	.....	118.2	118.4	117.0	111.8	110.1
17	109.0	108.0	.....	110.2	109.2	115.1	.....	118.6	118.8	116.5	111.9	110.3
18	108.6	108.4	.....	110.2	109.6	115.5	117.7	119.2	118.9	115.7	111.9	110.3
19	108.6	108.5	.....	110.0	109.9	115.5	.....	119.3	118.7	115.6	112.0	110.3
20	108.8	108.5	.....	110.2	110.3	115.4	118.6	119.5	118.2	115.7	112.0	109.8
21	109.0	108.5	.....	110.4	110.4	114.9	119.3	.....	118.3	115.8	.....	109.7
22	109.2	108.3	.....	110.7	110.3	115.5	119.6	.....	118.3	115.8	.....	109.9
23	109.2	108.3	h108.82	111.0	109.8	116.0	119.7	.....	118.3	115.6	h110.52	110.2
24	108.9	108.4	108.9	111.0	109.1	116.4	119.8	h118.37	118.1	115.4	110.9	110.2
25	108.6	108.7	109.2	110.6	109.4	116.6	119.7	118.8	117.8	114.8	110.9	109.8

79:5-193--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	108.8	108.9	109.4	109.8	110.2	116.6	119.4	119.2	117.2	114.6	110.7	109.1
27	109.0	108.9	109.2	109.7	110.7	116.6	119.4	119.3	116.8	114.8	110.7	108.3
28	108.9	108.6	108.7	110.2	111.1	116.5	119.8	119.2	117.2	114.8	110.5	107.9
29	108.9		108.0	110.7	111.2	117.3	119.9	119.2	117.7	114.6	110.1	108.3
30	108.9		107.9	111.0	111.1	118.1	120.0	118.6	118.2	114.5	110.0	.....
31	108.8		108.4		110.5		120.0	118.8		114.1		.....

h Tape measurement.

79:7-17. Memphis Light, Gas and Water Division. North Parkway and North Garland St. Lat. 35°09'12", long. 90°00'41". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 522 feet, screen 462-522. Land-surface datum is 249.9 feet above msl. Highest water level 59.9 below lsd, Dec. 26, 1940; lowest 118.8 below lsd, July 3, 1954. Records available: 1940-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.8	99.1	100.0	101.1	107.9	107.2	118.0	110.2	110.0	112.1	100.3	96.6
2	100.2	99.9	100.5	101.3	106.5	107.6	118.5	110.3	109.4	112.0	101.0	96.8
3	98.5	99.9	100.8	102.7	105.1	108.1	118.8	110.7	109.1	.....	101.9	96.8
4	98.0	100.0	101.4	101.4	104.1	107.3	.....	110.8	109.6	h109.30	101.7	98.5
5	98.6	100.4	102.1	103.1	106.3	106.4	h111.63	111.4	108.0	110.7	101.9	97.2
6	99.9	100.2	102.1	104.8	107.8	104.1	113.9	111.6	105.8	.....	101.5	96.0
7	101.6	100.2	102.0	106.1	108.3	104.5	115.2	.....	106.1	.....	101.4	95.7
8	102.0	99.3	100.7	105.8	106.7	106.5	115.4	.....	107.2	.....	102.6	94.6
9	101.9	100.0	101.6	105.8	103.8	108.3	114.0	h107.61	110.1	.....	102.0	95.2
10	100.8	101.2	101.6	106.2	103.6	109.1	111.2	108.0	110.5	.....	101.7	95.0
11	100.4	101.8	100.9	104.2	105.0	109.4	110.4	108.7	110.0	h107.90	101.9	95.0
12	102.0	101.8	102.4	103.8	105.1	110.1	110.7	109.8	108.0	109.2	100.6	94.8
13	102.4	101.7	102.3	102.7	104.6	108.4	110.5	110.1	107.4	110.1	100.7	93.9
14	102.4	101.1	102.2	104.6	105.7	108.6	112.6	110.9	108.2	110.3	99.2	93.6
15	102.4	99.6	100.9	107.0	105.5	109.1	113.8	108.9	110.2	110.1	99.2	94.4
16	101.9	99.6	101.2	107.5	103.5	112.0	113.8	109.5	111.1	108.9	97.8	95.2
17	100.9	101.1	101.6	106.7	104.6	111.3	114.0	110.3	111.6	106.9	100.2	94.9
18	101.0	101.9	101.8	105.0	105.0	111.4	111.0	111.0	112.0	106.9	100.7	95.0
19	101.5	101.9	101.9	106.3	106.9	112.0	111.1	112.3	110.7	105.7	99.3	94.9
20	101.9	101.6	102.2	106.6	106.8	110.4	113.1	111.7	111.0	105.5	98.8	94.1
21	101.9	100.9	101.8	107.7	106.8	109.4	112.8	111.0	111.8	108.2	98.6	94.1
22	100.9	100.2	100.0	109.1	106.6	112.3	112.1	108.3	111.3	107.6	97.5	94.3
23	101.2	100.6	100.0	109.7	104.4	113.6	112.4	108.7	.....	107.5	98.6	95.0
24	101.2	101.4	101.1	109.0	104.2	113.5	112.8	108.8	.....	106.1	97.8	95.2
25	99.8	102.3	103.9	106.9	105.7	112.3	111.0	109.6	.....	105.1	97.6	95.1
26	100.9	102.4	102.5	106.9	108.2	112.4	111.8	110.6	.....	104.5	96.7	93.4
27	102.3	102.2	102.7	107.1	108.7	110.8	113.2	110.4	h108.77	104.8	96.0	h90.12
28	101.6	101.6	101.5	107.7	109.1	114.2	113.3	110.3	110.3	103.0	95.3	.....
29	101.7		100.7	108.0	107.6	116.2	113.4	108.0	111.6	102.2	95.7	.....
30	101.7		100.4	107.6	105.5	117.4	113.8	108.8	111.9	102.1	95.8	.....
31	101.5		101.4		106.8		113.0	109.4		101.5		.....

h Tape measurement.

79:7-26. Memphis Light, Gas and Water Division. North Parkway and North Dunlap St. Lat. 35°09'11", long. 90°01'49". Drilled unused artesian well in sand of Wilcox group, diameter 8 inches, depth 1,387 feet. Land-surface datum is 255.4 feet above msl. Highest water level 48.7 below lsd, Jan. 26, 1945; lowest 107.9 below lsd, Sept. 27, 1954. Records available: 1945-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	81.3	73.5	71.9	70.6	.....	71.7	84.1	.....	97.1	96.4	h81.19	88.0
2	81.1	73.1	71.5	70.6	.....	71.3	85.5	h93.17	97.2	96.5	.....	88.5
3	80.9	72.6	71.5	70.6	h69.18	71.6	85.5	95.8	97.1	96.1	.....	88.5
4	81.1	72.7	71.5	70.7	69.6	72.0	86.8	96.0	97.3	96.4	.....	82.2
5	82.9	71.9	71.4	70.9	69.8	72.2	h88.15	96.2	97.2	96.4	.....	81.9
6	83.3	72.5	71.5	70.2	69.8	72.2	90.6	96.3	96.9	.....	h81.39	h81.80
7	83.4	72.7	71.5	69.8	70.1	71.7	90.7	.....	95.9	.....	.....	83.3
8	83.2	72.7	71.4	69.9	70.5	71.4	89.4	.....	96.0	.....	h80.29	80.9
9	83.5	72.4	70.9	69.6	70.4	71.5	89.7	h96.01	96.4	.....	.....	82.6
10	83.9	72.1	71.2	69.2	70.1	72.6	89.8	97.2	96.7	.....	.....	83.4



79:7-26--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	84.2	72.4	71.4	68.1	69.6	71.7	89.7	98.2	96.8	h95.45	.....	83.6
12	84.6	72.5	71.5	67.6	69.2	71.8	89.6	98.8	96.4	95.6	.....	83.8
13	84.9	72.4	71.6	68.9	69.6	72.0	90.7	98.7	h94.23	95.8	h81.14	85.0
14	83.8	72.0	71.6	....	70.2	h73.80	92.6	98.8	.....	96.3	81.3	84.2
15	83.3	72.7	71.1	....	70.8	74.6	92.0	98.9	.....	.....	89.6	84.3
16	83.7	74.0	72.0	66.9	71.1	74.9	92.2	98.4	.....	.....	90.1	84.4
17	84.1	74.3	70.5	67.0	71.2	75.2	92.4	98.0	.....	.....	89.4	84.3
18	85.1	75.1	72.6	67.1	72.8	75.5	92.6	97.8	.....	h94.29	90.4	84.4
19	83.5	72.4	73.5	68.9	73.2	75.6	95.1	97.8	.....	95.2	89.1	84.5
20	74.2	.....	74.3	69.3	....	75.6	92.6	.....	h96.30	.....	89.2	84.5
21	74.5	.....	74.7	69.7	....	75.3	90.7	.....	98.1	.....	89.0	84.2
22	73.1	h83.16	74.7	68.0	....	75.7	96.2	.....	98.4	.....	88.8	84.4
23	....	74.00	....	67.5	....	.....	h79.72	h94.52	98.0	h85.54	88.8	84.5
24	....	72.9	....	67.4	73.4	.....	.....	.....	97.9	.....	89.0	84.4
25	76.1	72.7	72.7	66.9	73.5	.....	.....	.....	97.7	h81.78	89.1	84.2
26	76.3	72.9	72.6	71.1	70.6	.....	h91.24	.....	107.0	92.6	.....	83.8
27	74.0	72.5	72.4	71.5	70.6	.....	94.7	.....	107.9	84.2	.....	83.1
28	74.1	....	71.8	....	71.2	h83.43	96.4	.....	96.4	.....	.....	82.1
29	74.0	.....	82.0	....	71.7	84.5	.....	.....	96.5	.....	h87.04	....
30	73.9	.....	70.7	....	71.9	84.2	.....	102.6	96.2	.....	87.8	....
31	73.9	.....	70.1	.....	71.8	.....	.....	97.0	.....	.....	.....	....

h Tape measurement.

79:7-34. Memphis Light, Gas and Water Division. Leath and Dunlap Sts. Lat. 35°09'22", long. 90°01'51". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 472 feet. Land-surface datum is 256.7 feet above msl. Highest water level 82.9 below lsd, Mar. 18, 1946; lowest 132.1 below lsd, July 3, 1953. Records available: 1944-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	114.7	113.9	114.4	121.4	124.6	.....	118.9	119.6	122.0	109.8	105.8
2	.....	115.9	115.9	114.3	121.0	125.2	.....	121.5	119.6	122.0	111.7	106.0
3	.....	115.7	116.4	114.3	117.2	125.2	.....	122.2	119.7	120.5	.....	105.1
4	113.7	116.4	116.6	113.8	119.3	124.7	.....	122.7	120.7	120.2	.....	105.0
5	116.1	117.2	116.9	117.5	122.5	123.0	h124.12	121.0	121.0	122.3	112.1	105.0
6	117.9	116.1	116.9	120.0	124.2	120.8	127.8	123.3	116.1	122.9	112.4	103.4
7	118.7	115.4	116.1	121.3	124.2	123.4	129.2	.....	116.2	121.1	112.4	105.8
8	119.0	114.2	114.3	123.9	123.3	125.5	129.5	.....	118.2	118.7	111.7	106.6
9	118.9	116.0	115.8	123.9	118.7	125.7	129.1	h117.34	122.9	118.4	110.4	107.3
10	114.5	117.4	115.3	122.6	119.7	127.2	126.3	118.6	122.9	117.9	111.7	107.0
11	117.6	118.1	114.3	119.7	120.8	128.6	124.2	120.0	121.0	116.6	110.4	106.4
12	118.7	117.2	116.9	117.0	120.8	129.1	126.1	121.0	118.6	118.7	110.2	106.1
13	118.7	117.0	117.2	117.4	119.7	129.0	125.7	121.3	118.0	118.6	108.8	104.5
14	118.6	115.9	115.5	119.4	120.2	128.5	131.5	122.7	119.6	117.9	107.0	106.6
15	.....	114.4	112.7	.....	120.2	129.3	131.9	120.3	119.8	117.8	106.9	107.6
16	.....	114.6	114.4	.....	119.1	127.3	125.8	122.1	120.7	115.9	107.5	106.8
17	.....	119.0	116.9	.....	117.7	127.2	125.7	123.3	121.2	114.2	108.4	107.2
18	116.0	120.3	116.4	.....	118.8	128.3	120.1	123.2	121.3	111.1	110.1	107.2
19	118.5	120.3	114.8	120.7	121.4	129.2	122.2	125.3	121.3	113.0	108.6	107.1
20	119.0	116.5	114.8	120.4	121.7	129.1	123.2	124.4	121.4	113.9	108.1	106.0
21	119.1	114.6	112.9	123.3	121.8	126.4	121.8	121.7	123.5	114.4	107.8	108.1
22	117.4	116.0	112.7	125.2	121.8	126.5	119.7	116.6	122.0	111.9	107.1	107.1
23	118.0	116.5	112.7	125.7	119.7	129.7	122.1	120.0	119.6	111.4	106.7	106.5
24	116.2	117.2	115.9	124.6	119.9	128.4	122.1	121.0	120.3	110.8	107.1	106.4
25	114.8	118.3	116.1	122.6	125.1	128.5	121.6	122.7	120.4	111.0	106.0	105.7
26	117.2	118.3	116.0	121.6	125.3	128.6	123.5	121.5	120.3	113.7	105.6	102.0
27	117.5	117.8	115.8	123.7	124.6	128.7	125.0	121.0	119.4	113.9	103.1	102.8
28	117.5	116.1	114.5	123.7	124.6	129.1	125.2	121.0	122.6	113.1	102.3	103.5
29	117.7	.....	114.5	120.7	123.5	130.8	126.8	120.3	122.6	115.6	105.4	103.9
30	117.6	.....	115.0	121.5	122.0	131.8	126.8	121.3	121.8	114.1	104.1	104.0
31	116.4	.....	114.5	.....	122.5	.....	123.7	120.7	.....	111.5	.....	104.1

h Tape measurement.

79:8-56. Memphis Light, Gas and Water Division. Normal St. and Central Ave. Lat. 35°07'01", long. 89°56'02". Drilled unused artesian well in sand of Wilcox group, diameter 8 inches, depth 1,370 feet. Land-surface datum is 284.2 feet above msl. Highest water level 72.0 below lsd, June 7, 1946; lowest 114.6 below lsd, July 5, 1951, Sept. 23, 1954. Records available: 1945-54.

79:8-56--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	103.8	99.0	99.9	101.3	103.7	h104.27	107.2	108.3	113.2	110.6	110.4	108.5
2	103.3	99.3	100.9	100.9	103.9	103.9	107.4	107.4	113.3	110.7	110.2	108.8
3	102.7	103.6	101.6	101.5	104.2	104.6	107.4	107.4	113.9	110.6	110.4	107.2
4	104.1	104.4	102.1	101.8	103.8	104.5	106.8	108.0	114.0	110.4	107.7	106.7
5	104.5	101.6	101.3	102.0	104.4	105.2	105.7	108.4	113.8	112.0	107.7	106.0
6	104.7	101.6	101.3	101.3	104.6	105.1	104.8	108.6	112.6	112.6	107.5	105.4
7	104.0	101.7	101.2	105.4	105.4	104.1	104.1	108.8	111.7	113.0	106.6	104.3
8	104.8	102.7	104.3	106.2	98.6	100.8	103.4	109.0	112.0	113.6	.....	107.1
9	105.5	102.9	101.9	106.3	96.2	99.9	103.2	109.4	112.8	113.8	h108.58	107.8
10	105.7	101.2	105.4	105.9	100.5	100.3	101.9	109.7	110.1	113.4	109.0	108.1
11	105.8	102.1	105.6	105.0	101.5	100.6	102.0	110.2	110.3	112.3	109.1	108.8
12	106.0	104.6	102.6	104.2	102.2	100.8	101.9	111.6	110.0	109.6	109.1	109.0
13	104.1	104.7	102.4	103.3	103.0	100.9	101.7	112.2	111.4	.....	107.3	109.2
14	105.3	104.6	101.7	103.1	103.5	100.7	101.6	110.4	111.9	.....	106.7	109.0
15	105.5	104.9	100.9	103.6	103.9	105.7	101.5	109.8	112.6	.....	107.7	107.2
16	103.3	105.0	100.7	104.4	104.3	106.8	101.8	110.5	113.1	.....	107.7	107.0
17	103.1	105.1	100.7	104.6	104.6	107.4	101.9	111.2	113.4	.....	107.1	107.0
18	103.0	103.2	100.7	104.9	105.0	106.3	102.6	109.0	113.5	.....	106.9	106.9
19	104.7	102.7	101.4	105.1	105.2	106.4	103.6	112.2	113.6	109.4	106.8	106.8
20	105.0	102.4	102.1	105.1	105.1	106.1	104.8	113.0	113.8	109.6	106.8	106.7
21	102.8	102.5	102.5	105.1	104.8	105.0	105.6	113.4	114.3	110.0	106.6	106.7
22	103.3	105.2	102.6	105.3	104.8	105.4	106.1	113.5	114.5	110.3	105.7	106.7
23	103.6	105.7	102.4	105.1	104.1	105.6	106.6	113.4	114.6	110.4	105.2	106.7
24	103.7	104.1	102.5	104.9	101.9	106.0	106.9	113.3	112.5	110.2	105.6	106.7
25	103.7	103.6	104.3	104.1	102.7	106.2	107.0	113.3	111.2	109.5	106.0	106.2
26	103.7	103.3	104.7	103.6	102.9	106.8	106.8	113.4	109.9	108.8	107.2	105.1
27	103.4	100.9	104.4	104.2	103.2	106.8	107.1	113.6	109.3	109.6	107.6	104.2
28	100.2	98.8	103.5	104.7	103.6	106.6	107.4	113.8	109.9	109.7	107.9	103.9
29	99.0	.....	103.0	103.5	104.2	106.8	107.9	113.5	110.2	109.8	108.1	105.9
30	98.5	.....	103.1	103.6	.....	106.9	108.4	112.6	110.3	110.0	106.9	106.3
31	97.9	.....	101.0	.....	.....	.....	108.6	112.9	.....	110.4	.....	105.3

h Tape measurement.

79:8-73. Memphis Light, Gas and Water Division. Normal St. and Central Ave. Lat. 35°07'27", long. 89°55'56". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 499 feet, screen 438-499. Land-surface datum is 302.7 feet above msl. Highest water level 95.8 below lsd, Mar. 8, 1946; lowest 138.4 below lsd, Mar. 15, 1949. Records available: 1946-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	123.5	124.5	123.8	133.4	133.3	133.8	.....	125.5
2	.....	h124.37	h123.28	.....	123.5	125.0	123.9	133.2	133.0	133.8	h126.67	125.8
3	.....	.....	124.8	.....	.....	123.2	124.0	133.0	130.6	133.7	.....	126.4
4	.....	.....	.....	.....	h125.10	.....	124.0	133.1	130.5	133.4	.....	126.4
5	h123.47	.....	.....	.....	123.3	.....	123.2	133.4	130.5	132.4	.....	126.0
6	.....	.....	.....	h124.74	123.7	.....	130.8	133.3	130.3	133.0	.....	127.0
7	.....	.....	.....	124.7	124.5	.....	132.4	133.3	132.8	133.4	.....	127.1
8	.....	.....	.....	124.6	124.5	123.7	132.7	133.1	133.0	133.2	.....	126.6
9	.....	h124.62	h124.22	123.5	124.2	122.8	132.4	132.9	133.3	133.1	h127.81	126.1
10	.....	124.3	124.0	123.5	.....	122.4	132.3	132.9	133.4	132.8	.....	125.8
11	.....	.....	125.4	123.2	h121.67	122.4	132.3	132.8	132.8	132.6	.....	125.6
12	h132.22	.....	125.5	123.1	121.5	122.5	132.2	133.0	.....	127.2	.....	125.4
13	.....	.....	125.8	h123.23	121.6	122.6	132.5	133.0	.....	127.0	127.6	125.2
14	.....	.....	126.0	122.5	120.7	.....	132.7	133.3	h131.78	126.6	127.6	126.1
15	.....	.....	.....	122.6	120.8	h121.82	133.2	133.3	.....	126.6	127.6	126.3
16	.....	h123.66	h123.73	122.2	120.8	123.5	133.5	133.2	.....	126.0	126.7	126.7
17	.....	124.4	124.1	122.3	121.8	123.0	.....	133.1	.....	126.0	127.2	126.7
18	.....	.....	125.2	122.2	121.0	122.8	.....	133.4	.....	125.8	127.2	126.7
19	h123.45	.....	125.2	122.9	121.9	122.7	.....	133.5	.....	127.0	127.2	126.8
20	126.2	.....	h125.43	h123.48	123.3	122.6	h133.40	133.0	.....	127.8	127.2	127.3
21	.....	.....	.....	123.9	.....	.....	133.4	132.9	h133.06	127.9	127.2	127.2
22	.....	.....	.....	123.6	.....	h121.88	133.1	132.6	.....	128.0	127.0	127.3
23	.....	h124.18	h126.61	123.5	.....	122.1	133.0	132.4	.....	128.1	124.7	127.3
24	.....	125.1	126.7	123.4	.....	120.6	133.1	132.3	.....	128.0	124.6	125.2
25	.....	125.0	122.7	123.2	122.9	.....	.....	132.1	.....	127.8	124.8	125.2

## 79:8-73--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	h127.67	125.6	122.7	123.1	123.3	.....	.....	132.6	.....	127.6	124.8	125.0
27	127.9	125.8	122.5	122.4	125.7	.....	h133.15	132.8	.....	127.5	124.4	124.6
28	.....	.....	122.3	122.8	123.6	.....	133.4	132.9	h133.43	127.5	124.2	h124.13
29	.....	.....	122.5	123.1	122.0	h123.29	133.6	132.8	.....	129.2	124.8	.....
30	.....	.....	123.9	123.4	121.9	123.6	133.5	132.8	h133.71	.....	124.8	.....
31	.....	.....	124.6	.....	121.8	.....	133.5	133.1	.....	.....	.....	.....

h Tape measurement.

79:8-86S. Memphis Light, Gas and Water Division. Willow Rd. and Getwell St. Lat. 35°05'15", long. 89°55'36". Drilled observation water-table well in terrace deposits, diameter 6 inches, depth 91 feet. Land-surface datum is about 260 feet above msl. Highest water level 21.28 below lsd, Apr. 2, 1950; lowest 36.63 below lsd, Sept. 5, 1954. Records available: 1948-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.46	34.24	33.90	33.18	32.74	32.87	34.98	35.50	36.31	35.92	h35.87	35.86
2	34.37	34.26	33.95	32.96	32.64	32.77	35.04	35.28	36.26	35.86	36.05	35.86
3	34.37	34.29	34.11	33.02	32.70	32.88	35.11	35.30	36.24	35.84	35.89	35.88
4	34.37	34.22	34.96	32.93	32.69	32.91	34.98	35.34	36.33	35.81	35.79	35.91
5	34.50	34.23	33.71	32.98	32.55	32.89	34.97	35.41	36.63	35.83	35.79	36.16
6	34.54	.....	33.66	32.92	32.45	32.83	35.03	35.51	36.24	35.89	35.64	36.05
7	34.46	.....	33.59	32.95	32.59	32.84	35.00	35.51	36.24	35.88	35.70	35.75
8	34.36	h33.80	33.52	33.18	32.62	32.95	35.09	35.26	36.02	35.69	35.70	35.63
9	34.38	33.94	33.46	33.03	32.61	33.01	35.04	h35.24	36.11	35.58	35.71	35.75
10	34.41	34.01	33.38	32.92	32.64	33.06	35.01	.....	36.27	35.62	35.75	35.75
11	34.49	34.54	33.47	32.94	32.50	33.16	35.02	.....	36.22	h35.74	35.77	35.66
12	34.58	34.54	33.69	32.98	32.43	33.20	35.03	.....	36.08	.....	35.71	35.64
13	34.45	34.02	33.91	32.80	32.45	33.23	35.13	.....	36.05	.....	35.65	35.64
14	34.24	33.95	33.81	32.70	32.48	33.31	35.20	.....	36.05	.....	35.68	35.56
15	34.22	34.02	33.69	32.81	32.55	33.51	35.25	.....	36.16	36.08	h35.60	35.65
16	34.52	34.20	33.60	32.87	32.50	33.70	35.28	h35.48	36.23	36.14	.....	35.61
17	34.50	34.21	33.40	32.86	32.46	33.82	35.28	35.75	36.26	36.08	.....	35.59
18	34.31	34.05	33.25	32.80	32.48	.....	35.33	35.84	36.21	h36.01	.....	35.65
19	34.25	33.94	33.30	32.81	32.51	.....	35.30	35.95	36.26	.....	.....	35.65
20	34.42	33.95	33.39	32.77	32.61	.....	35.36	35.93	36.27	.....	.....	35.56
21	34.47	34.07	33.44	32.71	32.56	h33.98	35.27	35.92	36.46	.....	.....	35.43
22	34.37	34.09	33.26	32.70	32.50	34.13	35.16	35.69	36.11	.....	h35.80	35.44
23	34.30	33.90	33.19	32.70	32.45	33.91	35.27	35.81	35.92	h36.01	35.81	35.54
24	34.16	33.90	33.12	32.69	32.47	33.91	35.39	35.81	35.81	36.07	35.88	.....
25	h34.06	33.83	33.29	32.70	32.63	h34.43	35.27	35.87	35.84	h35.98	35.94	.....
26	.....	33.94	33.30	32.66	32.71	.....	35.27	36.20	35.84	.....	35.94	.....
27	34.46	33.97	33.18	32.70	32.70	.....	35.38	36.00	35.88	.....	35.74	h35.23
28	34.39	34.00	33.12	32.68	32.69	h34.63	35.46	36.10	36.21	.....	35.90	35.32
29	34.25	.....	33.06	32.68	32.85	34.85	35.49	36.22	36.41	.....	35.91	35.55
30	34.39	.....	33.11	32.73	32.88	34.95	35.50	36.16	36.00	.....	35.89	35.58
31	34.41	.....	33.19	.....	32.80	.....	35.50	36.48	.....	.....	35.40	.....

h Tape measurement.

79:9-107. Memphis Light, Gas and Water Division. Woodland Ave. and Marjorie St. Lat. 35°05'49", long. 90°01'55". Drilled observation artesian well in sand of Claiborne group diameter 4 inches, depth 338 feet, screen 328-338. Land-surface datum is 256.2 feet above msl. Highest water level 59.40 below lsd, Feb. 6, 27, 1950; lowest 128.98 below lsd, Aug. 18, 1954. Records available: 1948-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	90.1	88.5	89.8	.....	99.4	.....	.....	120.7	110.1	98.9	97.8
2	.....	90.8	90.9	90.0	.....	100.2	.....	117.4	118.9	109.6	99.5	99.2
3	.....	90.9	91.7	89.9	91.2	100.5	.....	120.2	118.0	109.3	100.6	99.6
4	h87.56	90.9	92.0	89.0	91.5	99.3	.....	.....	118.3	111.9	100.6	99.7
5	.....	91.0	91.4	88.8	91.5	98.3	h109.31	.....	114.2	113.2	100.0	98.9
6	.....	91.0	91.5	89.6	91.4	97.3	.....	.....	115.0	113.8	99.7	99.0
7	.....	90.6	91.0	90.0	91.4	96.7	.....	.....	115.0	112.8	98.8	99.3
8	.....	90.3	90.3	90.5	91.4	.....	.....	.....	116.2	110.2	98.7	99.6
9	.....	91.0	89.3	91.1	90.6	.....	h112.80	.....	115.2	107.8	99.1	99.9
10	.....	91.3	89.5	91.1	89.9	.....	.....	.....	114.2	107.1	99.1	100.1

## 79:9-107--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	h89.10	92.0	89.5	90.4	90.6	.....	.....	h119.31	114.0	106.9	99.1	100.1
12	.....	92.1	89.8	90.0	90.7	.....	h113.19	.....	113.2	109.0	99.1	99.4
13	.....	92.1	89.8	90.4	91.2	.....	119.9	.....	113.4	110.1	98.7	98.7
14	.....	91.3	89.4	90.8	91.0	h101.87	121.4	.....	115.6	110.1	97.8	97.5
15	.....	91.1	89.1	91.3	90.6	105.8	122.2	.....	116.5	108.5	97.4	98.0
16	89.1	91.4	89.6	92.3	90.2	107.1	122.7	h121.95	117.1	105.9	99.7	98.0
17	89.2	91.5	89.6	92.3	92.2	107.1	.....	.....	117.1	104.4	98.0	98.2
18	91.8	91.8	91.6	91.8	93.2	106.7	.....	h128.98	115.6	103.2	99.1	98.2
19	.....	91.9	92.4	91.2	93.5	106.7	h118.81	.....	114.7	103.6	99.0	97.7
20	.....	91.9	92.4	92.2	93.0	106.4	122.0	h121.26	115.4	103.0	98.5	97.5
21	.....	91.2	92.1	93.7	94.2	108.0	h121.10	120.7	115.5	102.6	97.5	97.8
22	89.8	89.0	91.5	94.2	94.4	111.5	h119.22	118.5	114.8	102.4	98.5	100.0
23	92.1	89.4	90.0	94.3	92.6	112.0	121.0	119.8	112.3	101.8	98.5	101.0
24	92.1	89.7	90.1	94.3	93.2	110.5	121.0	122.3	111.9	101.1	96.8	101.0
25	91.4	89.8	90.3	93.6	98.0	.....	121.0	123.9	111.7	102.4	98.0	97.9
26	93.2	89.9	90.5	h92.09	99.6	.....	121.0	123.0	110.6	101.4	95.8	94.9
27	91.9	89.9	90.5	.....	99.0	.....	.....	123.5	110.1	101.3	94.5	96.5
28	91.6	89.2	89.6	.....	95.6	h110.65	.....	122.7	112.8	101.3	94.0	96.5
29	91.3	.....	89.0	.....	93.4	.....	h117.60	120.1	114.4	101.1	97.1	96.6
30	91.3	.....	89.6	.....	94.4	.....	.....	116.8	111.3	99.2	98.1	96.6
31	90.5	.....	89.7	.....	97.3	.....	.....	120.4	.....	99.7	.....	96.6

h Tape measurement.

79:9-110. Memphis Light, Gas and Water Division. Dunn Ave. and Mississippi Blvd. Lat. 35°05'34", long. 90°01'34". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 330 feet, screen 321-330. Land-surface datum is 246.6 feet above msl. Highest water level 46.30 below lsd, Feb. 20, 1950; lowest 118.4 below lsd, July 20-21, 1954. Records available: 1948-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.9	84.6	85.6	77.8	.....	93.5	.....	110.4	111.8	93.4	85.8	79.3
2	77.4	85.1	85.7	77.8	.....	94.1	.....	109.1	110.8	93.1	86.2	79.2
3	77.1	85.2	71.8	77.8	h74.89	94.5	.....	112.1	110.7	91.9	87.2	79.6
4	77.1	85.3	71.9	77.3	74.4	95.0	.....	113.9	111.0	93.7	87.2	79.6
5	77.4	85.4	71.7	h76.62	74.4	95.0	h93.50	114.7	108.5	94.4	86.6	79.1
6	77.6	85.4	71.6	.....	74.3	94.9	.....	103.3	112.4	94.9	86.3	79.2
7	77.8	85.1	71.3	.....	74.3	94.2	.....	101.7	111.9	94.6	85.6	79.4
8	77.8	84.7	73.6	.....	74.2	95.9	.....	99.4	113.2	93.0	85.3	79.6
9	77.8	85.0	77.0	.....	73.8	97.3	.....	h98.73	108.4	90.8	85.7	79.8
10	76.9	85.2	77.3	.....	73.1	98.2	.....	.....	107.5	90.7	86.6	83.4
11	h76.73	85.8	77.3	.....	73.4	98.8	.....	.....	107.3	90.4	86.9	80.1
12	.....	86.0	77.6	h86.88	73.6	98.9	h106.22	.....	106.6	91.7	86.5	79.6
13	.....	86.0	77.6	87.4	73.8	98.9	115.8	.....	110.7	92.5	86.1	82.0
14	.....	85.5	77.4	87.6	73.8	98.5	117.1	.....	112.4	92.6	85.6	82.6
15	.....	85.2	77.2	89.4	73.6	100.5	117.7	.....	113.2	92.0	85.2	83.0
16	.....	85.4	77.5	90.6	73.5	102.3	118.2	115.1	113.6	90.5	85.7	83.1
17	.....	85.6	77.0	90.7	75.0	.....	118.2	116.1	113.5	89.5	84.7	83.2
18	h87.82	85.8	78.1	90.4	75.8	.....	118.0	116.8	112.8	88.6	85.8	83.2
19	.....	85.9	78.7	89.7	76.1	.....	117.3	113.2	111.0	98.6	84.5	82.9
20	.....	85.8	78.8	90.7	75.7	.....	118.4	112.7	112.4	89.0	95.8	82.6
21	.....	85.5	78.7	91.0	76.5	h100.05	118.4	110.0	112.9	88.7	82.4	82.8
22	.....	85.5	78.3	75.7	76.7	109.1	117.0	108.2	108.0	88.6	84.5	84.9
23	.....	86.1	77.9	75.8	75.9	110.1	118.3	112.3	105.6	88.4	84.6	85.6
24	.....	86.4	77.9	75.5	88.8	97.6	118.3	114.7	105.6	87.8	84.7	85.7
25	h85.80	86.6	78.1	75.1	92.0	97.3	116.9	114.8	105.3	88.0	84.7	84.6
26	87.2	86.6	78.2	89.0	93.3	96.7	115.6	115.0	104.3	87.7	83.7	83.2
27	86.0	86.6	78.2	90.1	92.6	96.2	116.8	117.4	104.2	87.6	82.8	82.5
28	85.8	86.2	77.7	90.6	91.0	108.7	117.4	117.7	107.5	87.6	82.7	83.0
29	85.6	.....	77.2	90.7	89.8	112.4	116.8	113.3	110.1	87.4	83.6	83.4
30	85.6	.....	77.6	.....	89.7	.....	116.7	110.0	94.2	85.7	83.9	84.2
31	85.1	.....	77.7	.....	91.9	.....	116.7	111.5	.....	85.7	.....	84.9

h Tape measurement.

79:9-115. Memphis Light, Gas and Water Division. Mallory Ave. and Bellevue Blvd. Lat. 35°05'10", long. 90°01'08". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 310 feet, screen 300-310. Land-surface datum is 253.1 feet above msl. Highest water level 50.90 below lsd, Feb. 20, 1950; lowest 108.2 below lsd, July 24, 1954. Records available: 1949-54.

79:9-115--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.4	72.0	75.2	83.5	85.7	86.8	101.5	96.4	96.8	96.7	89.6	80.2
2	77.2	72.1	75.3	83.5	85.3	87.3	102.8	95.4	96.5	94.8	90.0	79.4
3	76.9	72.2	72.0	83.5	84.7	87.7	102.5	97.7	103.8	94.4	90.9	79.6
4	76.9	72.3	72.0	83.2	83.5	90.4	100.5	103.6	104.2	96.5	90.8	79.7
5	77.0	72.3	72.0	82.9	83.4	90.5	99.1	104.3	103.7	95.5	90.2	79.5
6	77.2	72.3	71.9	83.3	83.3	90.5	100.9	105.4	103.0	96.0	90.0	79.3
7	77.1	72.2	71.7	83.6	83.2	90.1	101.5	97.6	102.8	96.0	89.5	79.4
8	77.1	71.9	81.9	83.9	83.1	91.3	96.7	95.6	102.7	95.3	89.1	79.5
9	77.1	71.9	82.6	84.2	82.9	92.4	.....	95.8	94.6	94.5	89.3	79.8
10	76.7	72.0	82.9	77.5	82.4	93.1	.....	97.0	93.8	93.6	90.2	80.4
11	76.5	72.6	83.0	77.2	82.4	93.7	.....	97.5	93.6	93.3	90.5	80.0
12	.....	72.8	83.3	76.8	82.6	93.8	102.0	97.9	93.1	93.7	90.5	79.8
13	.....	72.8	83.3	76.8	82.7	93.9	104.9	98.2	93.5	94.2	90.3	80.4
14	77.7	72.6	83.3	76.9	82.7	94.1	106.1	98.0	95.0	94.4	90.0	80.9
15	77.9	72.2	83.1	78.4	82.6	95.0	106.9	96.9	95.7	94.4	89.6	81.2
16	77.7	72.2	83.3	79.6	82.3	95.4	107.2	104.8	96.2	93.5	89.8	81.3
17	76.6	72.4	82.7	79.7	82.5	95.4	107.4	.....	96.2	92.9	81.4	81.5
18	76.1	72.6	83.3	79.7	83.1	95.5	107.4	.....	96.0	92.1	89.5	81.5
19	86.1	72.6	83.8	79.0	83.4	95.5	106.9	.....	95.4	92.2	89.5	81.4
20	86.4	72.6	84.0	79.9	83.4	95.4	107.7	.....	95.3	92.2	80.9	81.2
21	84.3	72.6	84.0	80.2	83.6	96.4	107.8	.....	96.2	92.0	80.0	81.2
22	84.2	76.1	83.8	77.9	83.8	99.5	107.8	.....	94.1	91.9	82.0	81.7
23	73.7	75.4	83.6	84.9	83.6	100.4	108.1	h93.02	93.0	91.8	82.1	82.3
24	72.8	75.7	83.6	83.8	83.1	100.8	108.2	97.0	92.1	91.5	82.2	82.4
25	72.2	76.0	83.7	83.7	85.2	100.8	107.7	96.7	91.8	91.2	82.3	82.2
26	72.8	76.0	83.8	84.2	86.3	.....	105.4	97.1	91.1	91.2	82.0	81.4
27	72.8	76.0	83.9	85.1	86.3	.....	106.6	106.7	90.7	91.1	81.3	80.2
28	72.8	75.9	83.7	85.4	86.1	h97.79	107.1	107.5	96.5	91.1	80.9	80.4
29	72.6	.....	83.2	85.7	85.5	100.3	99.6	106.3	98.8	91.0	81.3	80.8
30	72.6	.....	83.3	85.7	85.1	100.5	99.2	96.0	96.1	90.7	81.5	81.0
31	72.4	.....	83.5	.....	85.7	.....	98.9	96.6	.....	89.8	.....	81.5

h Tape measurement.

79:9-131. Memphis Light, Gas and Water Division. Rutgers Ave. and Vassar St. Lat. 35°04'47", long. 90°01'47". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 312 feet, screen 292-312. Land-surface datum is 272.5 feet above msl. Highest water level 71.91 below lsd, Feb. 20, 1950; lowest 127.5 below lsd, July 23-24, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	100.6	98.5	98.2	100.3	104.4	106.5	122.4	.....	125.7	.....	106.2	105.0
2	99.1	99.5	100.7	100.2	102.5	107.4	123.4	121.0	124.4	.....	107.1	105.0
3	98.7	99.4	101.5	100.1	102.2	107.7	122.8	122.1	123.5	.....	109.0	105.1
4	99.6	99.3	.....	98.6	102.8	107.7	118.5	.....	123.5	h114.07	108.9	105.4
5	100.0	99.2	.....	99.2	102.6	106.3	115.0	.....	120.4	116.2	107.6	104.8
6	100.3	99.2	101.2	99.8	102.7	104.7	118.2	.....	120.0	116.7	107.2	104.4
7	99.0	98.1	100.2	100.2	102.6	105.5	119.9	.....	120.0	116.1	105.7	104.8
8	98.9	98.6	99.6	100.6	102.3	108.4	121.3	.....	121.4	114.3	106.3	104.8
9	98.7	99.3	100.1	100.7	101.0	110.5	120.3	h119.10	.....	.....	106.9	104.8
10	96.8	99.5	100.0	100.7	101.1	111.2	119.2	122.5	.....	.....	108.5	104.8
11	98.0	100.1	100.0	99.0	101.8	111.2	118.6	123.6	.....	h110.93	109.0	104.9
12	98.7	100.2	100.1	99.7	102.2	111.4	121.5	124.1	.....	113.2	108.8	104.5
13	98.6	100.2	100.0	100.3	102.4	111.2	124.3	124.3	118.3	114.5	108.4	103.8
14	98.7	98.6	98.6	100.8	102.2	112.3	125.8	124.1	120.6	114.5	106.8	103.9
15	98.7	99.2	99.5	100.9	101.6	114.1	126.7	124.1	121.6	113.6	107.0	103.9
16	98.6	99.4	100.0	101.9	100.2	114.6	127.1	h120.04	122.0	111.4	107.7	103.9
17	97.7	99.7	100.0	101.9	101.5	114.2	127.1	.....	121.9	109.3	107.5	103.9
18	100.0	100.0	100.6	100.5	102.6	113.4	125.8	.....	120.3	109.4	107.7	103.9
19	100.0	99.9	101.2	101.2	103.1	113.0	125.6	.....	118.8	110.6	107.7	103.9
20	99.7	99.9	100.2	101.8	101.9	112.5	127.3	.....	120.2	110.1	107.1	h103.72
21	99.3	98.6	100.1	103.2	102.6	114.0	127.3	.....	121.6	109.8	105.4	.....
22	98.6	98.4	100.2	103.6	102.7	116.7	127.2	121.9	120.1	109.9	105.3	.....
23	98.3	99.2	100.2	103.6	101.4	118.0	127.5	121.8	117.8	109.9	105.3	.....
24	96.9	99.5	100.6	103.4	101.6	118.5	127.5	.....	116.3	108.7	105.4	106.3
25	97.4	99.8	100.6	102.0	104.6	117.9	125.2	.....	116.0	109.6	105.4	104.7

## 79:9-131--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	99.9	99.8	100.8	103.1	106.1	116.3	122.0	.....	114.2	109.3	.....	103.4
27	100.1	99.7	100.7	104.5	106.1	115.6	.....	.....	115.7	109.4	.....	103.4
28	100.0	98.3	99.0	104.9	104.5	117.8	.....	.....	116.9	109.4	.....	104.1
29	99.7	.....	99.4	105.1	102.9	120.4	.....	.....	.....	109.0	h104.59	104.2
30	99.7	.....	100.2	104.5	102.2	120.4	.....	h122.20	.....	108.7	105.0	104.3
31	98.1	.....	100.3	.....	104.5	.....	.....	125.5	.....	106.2	.....	104.3

h Tape measurement.

79:9-135. Memphis Light, Gas and Water Division. Alcy Rd. and Benton St. Lat. 35°04'32", long. 90°01'47". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 265 feet, screen 255-265. Land-surface datum is 234.5 feet above msl. Highest water level 32.25 below lsd, Feb. 20, 1950; lowest 80.64 below lsd, July 23, 1954. Records available: 1949-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.89	55.83	55.77	.....	61.03	.....	73.25	77.28	79.15	70.80	63.29	61.59
2	56.79	56.62	57.27	.....	59.75	.....	73.26	76.13	78.64	70.04	63.95	61.70
3	56.37	56.67	58.09	.....	59.29	.....	73.26	76.83	77.80	68.65	65.24	61.96
4	56.84	56.56	58.40	.....	59.65	.....	73.26	77.76	77.69	70.21	65.20	61.98
5	57.33	56.50	58.38	56.58	59.62	.....	70.95	78.62	75.90	71.44	64.47	60.94
6	57.53	56.50	58.02	57.14	59.62	h61.84	72.49	79.02	74.75	71.99	64.19	61.31
7	57.03	55.77	57.25	57.45	59.58	h60.42	73.86	78.30	74.56	71.90	63.06	61.80
8	56.72	55.88	56.80	57.81	59.43	.....	74.87	75.42	74.62	70.62	63.22	62.05
9	56.62	56.44	57.20	57.95	58.42	.....	74.49	75.38	74.64	69.93	63.74	62.37
10	55.34	56.64	57.27	57.95	58.22	.....	73.74	76.40	74.64	68.11	64.35	62.51
11	55.86	57.19	57.26	56.75	58.78	.....	73.41	77.08	74.40	67.74	64.36	62.51
12	56.50	57.30	57.36	56.95	59.06	.....	74.84	77.12	73.24	69.06	64.36	61.58
13	56.45	57.30	57.36	57.44	59.25	.....	77.28	77.16	72.68	70.08	64.36	60.91
14	56.42	56.27	56.42	57.84	59.19	h66.16	78.63	77.16	74.67	70.10	63.76	61.38
15	56.41	56.44	56.86	57.91	58.82	68.68	79.46	77.00	75.58	69.83	63.68	61.85
16	56.32	56.56	57.33	58.72	57.77	69.34	79.94	76.60	76.08	68.23	64.22	61.93
17	55.46	56.88	57.33	58.73	58.29	69.35	79.93	78.48	76.08	66.66	64.18	62.04
18	57.20	57.10	57.60	57.82	59.27	68.97	79.13	78.77	75.17	66.20	64.18	62.00
19	57.27	57.08	58.17	58.03	59.66	68.80	78.82	78.79	74.01	67.04	64.18	61.36
20	57.26	56.97	58.17	58.74	59.20	68.32	80.18	78.81	74.50	66.93	63.87	61.36
21	57.06	56.17	57.48	59.85	59.44	68.66	80.39	78.81	75.54	66.70	62.60	61.72
22	56.68	55.88	57.46	60.22	59.53	70.73	80.47	76.73	75.02	66.60	62.22	62.18
23	56.34	56.53	57.55	60.33	58.73	72.17	80.64	76.72	73.74	66.60	62.25	62.73
24	55.18	56.86	57.84	60.28	58.50	72.69	80.63	77.51	72.34	65.62	62.26	62.73
25	55.16	57.08	57.88	59.34	60.62	72.69	77.33	77.52	72.01	65.66	62.26	61.74
26	.....	57.09	57.97	59.60	61.99	71.70	77.57	77.53	70.64	65.60	61.32	60.70
27	.....	57.09	57.97	60.76	62.01	71.05	78.84	77.54	71.14	65.65	60.27	60.38
28	.....	56.11	56.82	61.15	61.48	72.26	79.76	77.54	71.90	65.64	59.81	60.94
29	.....	.....	56.80	61.42	60.35	73.21	79.74	77.54	72.60	65.33	61.05	61.37
30	.....	.....	.....	61.20	59.20	73.24	79.86	77.70	71.90	65.22	61.59	61.94
31	.....	.....	.....	.....	60.85	.....	79.86	78.96	.....	63.39	.....	62.84

h Tape measurement.

79:11-1. Forest Products Chemical Co. Chelsea Ave. and Fairfax St. Memphis. Lat. 35°10'24", long. 89°58'02". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, depth 440 feet. Land-surface datum is about 245 feet above msl. Highest water level 52.5 below lsd, Oct. 21, 1946; lowest 94.8 below lsd, Oct. 28-30, 1954. Records available: 1944-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	87.2	89.2	85.7	88.3	87.3	84.1	90.1	90.2	93.4	.....	.....	87.0
2	85.8	89.2	86.8	88.2	87.3	84.1	90.2	90.2	93.6	.....	h87.85	.....
3	84.2	88.5	87.9	88.4	87.1	85.0	89.1	91.3	92.7	.....	89.3	.....
4	85.4	88.3	88.3	88.4	87.5	85.4	85.4	91.1	92.4	.....	90.0	.....
5	87.0	88.4	88.7	88.2	86.8	85.2	83.2	91.6	88.7	h91.44	89.8	.....
6	87.9	88.3	88.8	88.0	86.8	83.6	83.7	91.9	87.0	92.9	89.2	.....
7	88.7	88.3	88.7	88.4	87.0	86.1	86.3	91.1	88.6	93.5	84.9	h86.43
8	89.1	.....	87.5	89.6	86.5	86.9	83.9	89.3	90.7	93.0	86.9	87.4
9	88.9	h86.87	88.6	88.5	83.1	88.0	83.9	89.5	91.6	93.0	86.9	88.7
10	89.8	88.5	88.2	87.1	.....	89.0	83.4	91.6	91.3	89.2	88.4	88.6

79:11-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	90.5	88.0	89.0	86.7	85.2	89.5	81.7	92.4	91.1	89.3	87.0	88.0
12	90.5	88.1	88.1	86.0	85.8	88.3	84.4	93.2	91.0	90.2	89.3	85.6
13	.....	87.7	88.4	86.6	87.1	85.9	85.2	93.4	88.7	91.2	88.5	87.3
14	.....	85.8	87.9	87.1	87.1	88.0	87.0	91.3	90.2	92.2	86.1	88.0
15	.....	86.1	87.8	88.1	86.6	89.0	87.7	89.5	91.5	91.8	87.8	87.8
16	.....	86.6	88.3	89.0	83.9	90.5	88.7	90.9	91.9	91.4	88.8	88.4
17	.....	86.7	88.4	89.5	85.5	90.8	87.6	91.6	92.6	89.6	89.0	88.8
18	.....	87.4	88.6	88.6	86.9	91.1	85.1	92.0	92.5	89.6	89.5	87.7
19	.....	87.6	88.9	88.0	87.5	90.4	88.9	93.6	.....	91.1	88.9	85.7
20	87.9	87.6	88.6	88.32	87.6	89.9	89.6	94.0	.....	91.4	89.1	85.7
21	89.5	86.9	88.9	88.3	87.0	88.3	91.4	94.0	h89.95	91.8	85.1	87.8
22	89.7	86.5	88.2	88.5	.....	90.3	92.2	90.9	89.7	90.8	85.4	88.2
23	90.6	86.7	88.5	87.3	.....	91.5	92.6	92.3	90.2	89.4	86.5	88.2
24	90.8	87.5	88.2	86.9	.....	92.1	91.8	92.7	.....	88.1	88.1	86.2
25	90.5	88.2	88.4	86.6	85.0	91.2	91.1	92.4	.....	88.8	86.6	83.8
26	91.0	87.1	88.0	84.6	87.8	91.2	92.0	93.2	.....	90.3	88.2	82.3
27	90.9	87.2	88.0	85.8	87.9	88.8	92.9	94.0	.....	90.6	88.2	81.4
28	91.5	85.6	86.3	86.7	88.6	89.3	93.9	93.2	h89.96	94.8	84.8	82.8
29	91.2	84.6	87.6	87.6	87.6	90.2	94.1	89.9	.....	94.8	.....	84.6
30	90.8	86.7	87.3	84.8	89.6	93.4	90.4	.....	.....	94.8	h85.69	85.8
31	89.3	87.8	.....	83.7	.....	91.9	92.3	.....	.....	.....	.....	85.1

h Tape measurement.

79:12-1. Cudahy Packing Co. Chelsea Ave. and Carpenter St. Memphis. Lat. 35°10'35", long. 89°57'55". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 438 feet. Land-surface datum is about 240 feet above msl. Highest water level 52.76 below lsd, Apr. 10, 1944; lowest 83.73 below lsd, Oct. 19, 1954. Records available: 1944, 1950-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	75.92	Apr. 6	77.27	July 13	73.74	Oct. 12	78.40
12	77.79	13	77.17	20	75.87	19	83.73
19	78.92	20	77.36	27	78.98	26	77.96
26	78.92	27	76.30	Aug. 3	78.70	Nov. 2	77.14
Feb. 2	78.55	May 4	76.31	10	78.26	9	76.50
9	78.00	11	74.67	17	78.17	16	76.23
16	76.62	18	74.83	24	79.27	23	76.27
23	76.57	25	74.54	31	78.72	30	75.30
Mar. 2	76.25	June 1	74.21	Sept. 7	77.37	Dec. 7	75.78
9	76.94	8	73.65	14	77.85	14	76.10
16	77.35	15	76.17	21	80.22	21	76.00
23	77.60	22	77.83	28	77.70	28	74.13
30	76.31	July 6	75.38	Oct. 5	79.13		

79:16-1. Layne & Bowler, Inc. Chelsea Ave. and University St. Memphis. Lat. 35°10'21", long. 89°59'27". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 465 feet. Land-surface datum is about 240 feet above msl. Highest water level 54.57 below lsd, May 13, 1946; lowest 83.66 below lsd, Oct. 6, 1953. Records available: 1944-54. Measurement discontinued. Jan. 5, 77.40; Jan. 12, 80.73; Jan. 19, 80.05; Jan. 26, 80.77; Feb. 2, 79.41.

79:19-1. Oliver Finnie Co. Vance Ave. and South Front St. Memphis. Lat. 35°08'19", long. 90°03'30". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 500 feet. Land-surface datum is about 280 feet above msl. Highest water level 91.12 below lsd, May 9, 1944; lowest 135.35 below lsd, June 30, 1954. Records available: 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	116.50	Apr. 21	125.30	July 21	133.79	Oct. 12	131.64
13	116.83	28	127.00	27	133.27	19	122.93
20	116.24	5	122.47	Aug. 3	132.91	26	124.77
27	115.34	19	124.86	10	132.65	Nov. 2	119.99
Feb. 3	115.46	26	127.56	18	133.39	9	121.93
10	118.19	June 2	129.39	25	132.54	16	120.75
Mar. 3	117.30	8	128.08	Sept. 1	132.41	23	117.92
10	117.09	15	129.84	8	130.68	30	116.90
17	116.83	23	132.53	15	132.55	Dec. 7	115.96
24	120.43	30	135.35	21	135.03	14	116.39
31	116.96	July 7	134.26	28	132.71	21	115.80
Apr. 7	124.45	14	134.22	Oct. 5	133.23	28	114.22
14	122.30						

79:20-4. Tennessee Valley Authority. Fourth St. and E. H. Crump Blvd. Memphis. Lat. 35°07'31", long. 90°03'01". Drilled unused artesian well in sand of Claiborne group, diameter 16 inches, reported depth 501 feet. Land-surface datum is about 280 feet above msl. Highest water level 84.66 below lsd, Jan. 6, 1941; lowest 137.44 below lsd, Aug. 18, 1954. Records available: 1940-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	117.10	Apr. 7	122.39	July 7	133.98	Oct. 5	134.57
13	123.33	14	122.00	14	136.30	12	133.09
20	117.64	21	124.60	21	136.62	19	129.10
27	121.34	28	125.38	27	136.35	26	125.01
Feb. 3	123.99	May 5	122.92	Aug. 3	134.55	Nov. 2	122.65
10	120.70	12	122.47	10	134.58	9	122.33
17	119.61	19	121.98	18	137.44	16	122.03
24	118.79	26	125.80	25	134.23	23	120.28
Mar. 3	117.79	June 2	127.09	Sept. 1	134.54	30	119.77
10	118.57	8	126.70	8	132.70	7	117.52
17	118.22	15	130.26	15	134.88	14	119.58
24	119.69	23	130.51	21	136.12	21	118.27
31	120.30	30	136.25	28	134.75	28	117.16

79:21-1. Memphis Publishing Co. South Orleans St. and Beale Ave. Memphis. Lat. 35°08'20", long. 90°02'21". Drilled unused artesian well in sand of Claiborne group, diameter 12 inches, reported depth 395 feet. Land-surface datum is about 255 feet above msl. Highest water level 85.8 below lsd, Feb. 13, 1950; lowest 128.8 below lsd, July 2, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	108.7	106.4	108.9	110.0	118.0	119.2	128.2	124.6	123.9	124.8	111.4	108.1
2	108.0	107.5	109.6	110.0	116.9	120.2	128.8	123.3	123.8	124.1	112.3	108.3
3	106.6	108.1	110.3	110.3	114.2	120.7	128.7	124.6	124.0	122.3	112.5	108.2
4	106.7	108.5	110.5	109.4	114.0	120.2	127.8	124.9	123.4	122.3	112.5	108.0
5	108.0	109.5	109.9	111.2	114.7	118.8	124.0	125.3	122.5	123.4	112.3	107.4
6	109.2	109.3	109.5	114.0	116.9	117.5	124.20	125.5	119.6	124.2	111.9	107.6
7	110.0	108.0	108.9	115.5	117.3	117.9	126.3	124.1	120.9	122.8	110.7	107.9
8	110.6	108.1	108.3	115.1	115.6	119.6	127.2	122.5	122.0	122.0	112.3	108.2
9	110.3	108.39	109.7	115.2	113.8	120.6	127.3	122.6	123.0	121.0	112.8	108.8
10	109.0	110.6	109.9	114.5	113.4	121.3	126.0	123.1	124.1	119.6	112.9	108.8
11	108.0	111.6	110.7	113.1	115.1	122.2	124.2	123.2	123.0	120.2	112.0	108.5
12	109.5	111.6	112.0	110.8	115.5	122.1	124.5	123.8	121.6	121.3	112.5	108.0
13	110.0	110.9	111.9	111.8	114.7	121.0	125.2	124.5	121.2	121.8	111.7	107.3
14	110.4	109.9	110.7	113.3	115.4	121.2	126.5	124.1	122.2	121.8	110.7	107.7
15	110.7	109.5	109.0	115.1	115.3	123.0	127.5	122.9	123.0	120.6	110.2	108.3
16	109.7	110.3	109.3	114.7	114.0	123.3	127.6	123.5	123.7	118.2	110.9	108.4
17	108.3	110.8	110.0	114.2	115.0	123.7	127.1	124.8	124.2	116.5	111.3	109.1
18	107.4	111.5	110.2	112.8	115.5	124.3	125.5	125.5	123.9	115.3	111.6	108.4
19	108.5	111.8	111.0	114.1	116.0	124.1	123.9	126.0	122.3	115.3	111.1	107.5
20	109.2	110.8	110.5	115.8	115.7	123.0	125.5	126.1	123.3	115.5	110.5	107.2
21	108.5	109.7	109.5	116.6	116.3	122.6	125.6	124.7	124.6	115.8	109.5	107.8
22	108.0	109.0	108.8	117.9	115.7	123.5	125.3	123.3	124.3	115.2	109.3	108.0
23	107.8	110.3	109.9	118.8	114.2	124.2	126.0	122.4	123.2	115.1	109.5	108.2
24	107.3	110.4	110.9	118.2	115.3	124.7	125.9	123.7	122.9	113.8	109.5	108.1
25	106.8	110.7	112.2	117.3	117.5	125.0	125.1	124.3	122.8	113.9	108.8	106.7
26	107.9	111.1	112.3	117.1	118.8	124.5	123.5	124.6	121.9	115.2	108.0	105.2
27	108.3	110.6	111.5	117.9	119.6	123.4	125.4	124.9	121.7	115.7	107.5	104.3
28	108.6	109.4	110.2	118.4	120.1	125.2	125.9	124.5	122.8	114.1	106.3	h104.05
29	108.6		109.7	117.9	119.0	126.7	126.5	123.1	124.1	113.3	107.0	.....
30	108.1		109.8	118.6	117.3	127.7	127.1	123.1	124.3	112.6	107.6	.....
31	107.6		109.7		118.2		126.0	123.8		111.2		.....

h Tape measurement.

79:23-1. Memphis Park Commission. Riverside Park. Lat. 35°05'24", long. 90°04'50". Drilled industrial artesian well in sand of Claiborne group, diameter 8 inches, depth 300 feet. Land-surface datum is about 285 feet above msl. Highest water level 88.51 below lsd, Apr. 10, 1945; lowest 137.78 below lsd, Oct. 19, 1954. Records available: 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	120.00	Mar. 24	116.72	Apr. 14	116.99	Oct. 5	129.98
Feb. 3	114.80	31	116.17	21	117.46	19	137.78
17	118.36	Apr. 7	116.68	Sept. 8	129.60	26	130.32
Mar. 17	113.96						



79:33-2. Memphis State College. Norriswood Ave. and Patterson St. Memphis. Lat. 35°07'12", long. 89°56'20". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 460 feet. Land-surface datum is about 300 feet above msl. Highest water level 84.75 below lsd, Aug. 26, 1947; lowest 131.13 below lsd, Sept. 21, 1954. Records available: 1944-47, 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	123.00	Apr. 15	122.09	July 13	129.70	Oct. 12	125.88
12	122.15	22	120.34	20	131.12	19	125.98
19	123.70	29	120.64	27	130.69	26	126.15
26	123.81	May 6	121.77	Aug. 3	128.99	Nov. 2	125.96
Feb. 2	124.30	13	119.66	10	128.58	9	122.87
11	123.24	20	120.69	17	128.97	16	123.81
18	122.50	27	121.66	24	128.38	23	124.11
25	123.46	June 3	120.85	31	130.31	30	124.25
Mar. 4	123.19	8	121.61	Sept. 7	131.11	Dec. 7	124.82
18	122.84	15	121.12	16	130.89	14	122.77
25	122.58	22	122.31	21	131.13	21	123.09
Apr. 1	123.35	29	124.69	28	130.43	28	121.78
8	122.79	July 6	127.92	Oct. 5	131.10		

79:34-1. Victory Iron and Metal Co. Mallory Ave. and South Third St. Memphis. Lat. 35°05'10", long. 90°03'13". Drilled unused artesian well in sand of Claiborne group, diameter 4 inches, reported depth 350 feet. Land-surface datum is about 230 feet above msl. Highest water level 34.01 below lsd, Feb. 21, 1950; lowest 70.65 below lsd, July 21, 1954. Records available: 1944-47, 1949-54.

Jan. 6	56.39	Apr. 7	55.41	July 7	66.38	Oct. 5	67.28
13	57.04	14	56.04	14	67.85	12	66.08
20	56.63	21	56.88	21	70.65	19	64.69
27	55.77	28	57.93	27	69.80	26	63.27
Feb. 3	55.78	May 5	57.84	Aug. 3	69.71	Nov. 2	61.55
10	56.45	12	57.15	10	69.20	9	61.05
17	56.95	19	57.19	18	69.70	16	61.05
24	56.36	26	57.76	25	70.37	23	60.55
Mar. 3	55.89	June 2	59.23	Sept. 1	70.52	30	59.01
10	56.02	8	58.91	8	68.84	Dec. 7	59.53
17	55.75	15	61.70	15	68.27	14	59.15
24	56.10	23	62.90	21	68.33	21	59.09
31	55.72	30	65.75	28	67.35	28	57.84

79:36-1. Oakville Memorial Sanatorium. Getwell Rd. and U. S. Highway 78. Lat. 35°03'25", long. 89°56'20". Drilled institutional artesian well in sand of Claiborne group, diameter 12 inches, depth 502 feet. Land-surface datum is about 285 feet above msl. Highest water level 58.87 below lsd, Nov. 29, 1948; lowest 82.88 below lsd, Sept. 16, 1954. Records available: 1944-46.

Jan. 5	73.46	Apr. 8	70.14	July 6	73.42	Oct. 11	79.00
12	74.95	15	69.79	20	77.80	18	77.36
19	70.09	22	72.80	27	78.67	25	76.40
26	73.06	29	73.68	Aug. 3	77.44	Nov. 1	81.40
Feb. 2	69.99	May 6	74.55	10	78.64	8	72.84
11	72.66	13	75.54	17	79.42	15	72.90
18	70.01	20	70.33	24	74.08	22	79.85
25	69.70	27	73.48	31	79.46	29	76.74
Mar. 4	70.09	June 3	75.51	Sept. 7	80.74	Dec. 6	76.55
11	69.53	8	78.43	16	82.88	13	77.65
18	72.34	15	76.10	20	76.47	20	72.22
25	69.71	22	73.84	27	79.65	27	72.09
Apr. 1	69.89	29	74.98	Oct. 4	80.42		

79:37-1. Whitehaven High School. McClure St. and U. S. Highway 51. Lat. 35°00'55", long. 90°01'32". Drilled unused water-table well in terrace deposits, diameter 2 inches, depth 61 feet. Land-surface datum is about 300 feet above msl. Highest water level 32.90 below lsd, Apr. 11, 1950; lowest 47.54 below lsd, Dec. 28, 1954. Records available: 1944-54.

## 79:37-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	45.14	Apr. 7	45.52	July 7	45.33	Oct. 5	47.04
13	45.76	14	45.19	14	45.46	12	46.93
20	45.29	21	45.18	21	45.55	19	46.33
27	45.40	28	45.20	27	45.71	26	46.90
Feb. 3	45.35	May 5	45.24	Aug. 3	45.74	Nov. 2	46.99
10	45.29	12	45.20	10	45.83	9	47.05
17	45.35	19	45.14	18	45.91	16	47.12
24	45.10	26	45.10	25	46.06	23	47.20
Mar. 3	45.26	June 2	45.09	Sept. 1	46.15	30	47.29
10	46.89	8	45.09	8	46.25	7	47.37
17	45.89	15	45.08	15	46.38	14	47.41
24	45.13	23	44.97	21	46.44	21	47.47
31	45.13	30	45.18	28	46.55	28	47.54

79:38-3. American Finishing Co. Lauderdale St. and Bodley Ave. Memphis. Lat. 35°05'02", long. 90°02'36". Drilled unused artesian well in sand of Claiborne group, diameter 12 inches, reported depth 430 feet. Land-surface datum is about 240 feet above msl. Highest water level 66.7 below lsd, Feb. 28, 1949; lowest 130.5 below lsd, Aug. 19-20, 1954. Records available: 1945-54.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.1	99.2	98.3	100.9	104.5	111.4	.....	.....	130.1	.....	105.9	108.0
2	98.2	101.8	101.1	100.6	101.0	112.7	.....	.....	129.6	.....	110.1	106.5
3	97.5	101.3	102.7	100.4	105.0	112.8	.....	126.4	127.8	.....	111.7	106.7
4	101.2	101.8	103.7	97.4	107.0	113.1	.....	127.3	127.5	.....	111.4	106.7
5	102.5	100.3	103.5	102.1	105.8	110.3	.....	129.2	120.2	111.07	111.2	104.0
6	102.9	100.1	102.2	104.1	107.1	104.0	113.28	129.1	117.2	122.4	109.3	107.6
7	102.2	98.0	100.0	104.5	105.8	103.3	116.3	128.9	122.6	122.4	105.2	109.6
8	101.0	101.2	104.7	105.2	104.1	106.8	118.1	123.4	125.1	120.3	.....	110.9
9	99.9	104.3	105.7	104.8	100.0	109.0	118.0	123.4	124.8	119.7	111.50	111.7
10	96.8	104.4	105.4	103.5	100.4	111.0	117.2	125.5	124.0	112.0	111.5	111.6
11	98.4	105.4	104.2	97.9	102.2	111.7	116.9	126.2	123.0	114.6	111.7	110.6
12	99.9	105.0	104.2	99.4	103.1	111.6	119.7	127.5	117.5	118.7	111.2	104.9
13	99.7	103.8	103.1	100.9	103.5	108.8	123.2	128.3	116.9	120.5	110.7	105.9
14	99.7	99.0	97.6	102.0	103.0	112.8	125.4	127.6	120.7	120.5	105.2	108.1
15	99.7	100.3	99.3	102.0	101.5	117.7	126.9	120.7	123.2	114.6	108.6	110.0
16	99.5	100.8	100.6	102.5	98.9	119.4	126.9	124.7	125.9	115.4	111.0	109.8
17	96.6	101.4	101.3	102.4	102.4	119.5	126.4	127.4	125.7	109.6	110.7	109.9
18	.....	101.9	101.2	99.0	106.1	119.4	122.9	130.0	123.5	112.8	110.1	108.7
19	102.01	101.7	102.0	102.8	107.9	118.0	127.0	130.5	117.6	115.0	110.9	104.3
20	102.8	101.4	101.8	104.6	107.2	113.0	129.6	130.5	.....	114.8	110.0	107.9
21	103.0	98.6	99.1	107.1	107.2	113.0	130.0	130.1	114.37	114.6	104.6	109.4
22	101.0	100.9	102.0	107.7	105.5	119.1	130.1	122.4	124.5	113.8	107.7	110.5
23	99.8	103.7	103.6	107.1	100.9	121.2	130.2	125.0	123.0	113.0	108.5	110.8
24	96.9	104.4	105.6	105.4	100.8	122.4	129.8	127.6	121.3	108.4	107.9	109.4
25	98.1	105.0	105.4	101.2	105.8	.....	123.4	129.0	121.0	111.7	107.5	104.2
26	101.0	104.7	105.1	102.8	108.0	.....	124.0	130.1	114.3	113.6	104.0	104.0
27	102.0	104.1	104.7	105.2	107.8	.....	127.6	130.2	118.2	114.1	101.6	105.6
28	101.8	98.0	98.2	105.6	106.4	.....	129.4	129.9	121.3	114.0	100.8	108.5
29	101.2	99.1	105.8	104.0	104.0	122.75	129.3	124.0	122.7	113.3	106.4	109.0
30	101.0	101.1	105.0	102.2	109.0	123.9	129.4	125.6	122.2	113.1	108.2	110.2
31	98.1	101.1	101.1	109.0	109.0	109.0	129.3	128.8	.....	105.6	.....	112.1

h Tape measurement.

79:55-1. Baptist Memorial Hospital. Monroe Ave. and East St. Memphis. Lat. 35°08'28", long. 90°01'50". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, depth 490 feet. Land-surface datum is about 275 feet above msl. Highest water level 75.42 below lsd, Jan. 30, 1951; lowest 119.50 below lsd, July 7, 1954. Records available: 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	103.60	Mar. 3	105.55	Apr. 28	111.02	June 23	117.14
13	105.53	10	105.43	May 5	110.95	30	119.38
20	105.42	17	105.64	12	110.08	July 7	119.50
27	104.86	24	105.40	19	109.98	14	118.51
Feb. 3	104.86	31	105.75	26	111.11	21	118.05
10	105.09	Apr. 7	106.90	June 2	113.22	27	117.85
17	106.05	14	108.01	8	112.48	Aug. 3	117.55
24	105.98	21	109.79	15	115.65	10	96.91

## 79:55-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 18	116.98	Sept. 21	117.30	Oct. 26	109.70	Nov. 30	103.30
25	100.10	28	115.73	Nov. 2	107.84	Dec. 7	103.48
Sept. 1	116.43	Oct. 5	116.93	9	108.17	14	103.26
8	114.99	12	115.10	16	106.12	21	103.04
15	115.67	19	111.33	23	105.45	28	100.16

79:61-1. Pershing Avenue Corp. Pershing Ave. and Scott St. Memphis. Lat. 35°09'15", long. 89°58'07". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 365 feet. Land-surface datum is about 255 feet above msl. Highest water level 60.82 below lsd, Oct. 21, 1946; lowest 103.27 below lsd, Dec. 19, 1950. Records available: 1944-54.

Jan. 5	91.87	Apr. 15	94.71	July 6	84.70	Sept. 28	98.69
12	96.58	22	96.12	20	97.56	Oct. 5	98.87
19	93.63	29	95.49	27	100.43	12	97.37
26	97.28	May 6	96.00	Aug. 3	98.96	26	97.33
Feb. 2	93.51	13	94.47	10	98.45	Nov. 9	93.33
18	94.91	20	96.56	17	99.07	23	94.79
25	95.03	27	95.31	24	99.72	30	94.74
Mar. 4	95.39	June 3	94.60	31	99.56	Dec. 7	94.44
18	95.14	8	93.85	Sept. 7	93.56	14	95.38
25	93.27	15	95.66	14	98.53	21	94.36
Apr. 1	94.73	22	97.28	21	94.39	26	92.02
8	95.60						

79:65-1. Clover Farm Dairy. Beale Ave. and Manassas St. Memphis. Lat. 35°08'20", long. 90°02'05". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 501 feet. Land-surface datum is about 270 feet above msl. Highest water level 94.8 below lsd, May 26, 1947; lowest 149.2 below lsd, July 22, 1954. Records available: 1945-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	127.9	126.1	130.3	131.7	138.7	139.9	148.2	142.3	144.0	144.5	132.3	129.2
2	129.1	128.3	131.0	131.6	.....	140.8	148.8	142.4	143.9	144.0	133.3	129.5
3	125.5	130.2	131.9	131.4	136.0	141.4	148.6	144.7	144.0	142.7	133.6	129.4
4	127.9	130.5	132.0	129.4	135.6	140.8	.....	144.5	143.4	142.2	133.8	128.8
5	129.3	131.2	131.5	132.1	136.3	139.5	.....	145.2	.....	143.5	133.4	.....
6	130.3	131.0	130.9	134.8	137.7	138.3	h144.51	145.4	.....	144.1	133.1	.....
7	131.4	127.8	130.0	136.4	138.7	.....	146.4	143.9	140.9	143.3	129.0	h128.99
8	132.0	130.0	129.9	136.4	137.0	139.8	147.0	141.1	141.7	142.1	132.9	129.3
9	131.6	130.6	131.3	136.6	133.0	141.0	147.3	142.3	142.6	141.2	133.6	130.0
10	128.0	131.9	131.7	135.7	134.4	141.8	145.8	142.9	144.2	138.0	133.0	129.9
11	129.2	133.0	132.2	131.6	136.2	142.4	145.2	143.1	143.0	140.4	133.7	129.5
12	130.9	132.8	133.2	132.5	136.7	142.1	144.2	143.6	140.3	141.4	133.9	126.2
13	131.3	132.1	133.2	133.2	136.0	139.8	144.7	144.3	141.1	141.9	132.4	128.4
14	131.8	129.8	131.2	134.3	136.2	141.4	146.2	143.6	141.8	142.1	128.3	128.6
15	132.0	130.7	130.9	.....	135.9	143.2	147.4	141.2	142.9	140.7	.....	129.4
16	131.2	131.5	131.1	136.4	132.8	143.6	147.3	143.2	143.6	138.6	h131.32	129.3
17	128.7	132.2	131.8	135.4	135.7	143.8	146.7	144.7	144.0	135.0	131.9	129.9
18	128.7	132.9	132.1	131.9	136.3	144.4	.....	145.4	143.6	135.5	132.2	129.5
19	128.1	133.2	132.4	.....	137.0	144.2	.....	146.1	141.4	136.2	132.0	125.8
20	128.8	132.1	132.2	136.7	137.0	144.0	h144.09	146.1	143.1	136.5	131.5	128.5
21	128.3	128.8	128.4	137.4	137.3	144.0	147.8	144.5	144.4	136.5	127.7	128.9
22	127.7	130.6	130.2	138.6	136.8	143.8	149.2	142.4	144.1	135.8	130.4	128.8
23	127.4	131.7	131.1	139.7	133.2	144.1	148.8	142.4	143.0	135.7	130.4	129.0
24	126.5	131.9	131.9	138.8	136.0	144.7	148.2	143.3	142.8	132.5	130.6	129.0
25	126.3	132.2	133.2	135.4	138.1	145.0	.....	144.2	142.7	134.4	129.5	127.3
26	127.6	132.5	133.5	137.9	139.6	144.6	.....	144.5	141.7	135.5	129.1	123.2
27	128.1	131.9	132.6	138.6	140.1	144.2	h144.08	144.8	141.6	136.2	128.2	125.5
28	128.3	128.0	128.8	139.2	140.7	145.3	.....	144.4	142.8	135.1	124.8	h125.04
29	128.4	130.7	138.7	139.5	146.5	h145.07	142.2	143.9	134.1	128.0	126.6	
30	127.8	131.5	139.4	136.0	147.7	146.8	142.8	144.0	133.6	128.7	126.8	
31	126.8	131.5		138.9		145.4	143.7		129.5		126.5	

h Tape measurement.

79:87-2. Illinois Central RR. Gilbert Ave. and Barton St. Memphis. Lat. 35°07'16", long. 90°03'22". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 500 feet. Land-surface datum is about 270 feet above msl. Highest water level 67.32 below lsd, Jan. 18, 1949; lowest 124.00 below lsd, July 27, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	107.72	Apr. 7	110.25	July 7	122.77	Oct. 5	121.32
13	108.03	14	108.49	14	122.15	12	121.82
20	106.49	21	110.98	21	123.32	19	115.19
27	107.71	28	112.14	27	124.00	26	112.13
Feb. 3	107.46	May 5	113.23	Aug. 3	122.90	Nov. 2	110.32
10	110.56	12	109.12	10	120.69	9	111.05
17	107.14	19	109.86	18	122.29	16	110.29
24	108.43	26	111.38	25	123.40	23	109.79
Mar. 3	109.50	June 2	116.28	Sept. 1	121.25	30	107.09
10	107.25	8	115.05	8	122.01	Dec. 7	107.24
17	108.65	15	116.30	15	122.76	14	107.15
24	107.76	23	116.90	21	121.74	21	109.05
31	108.14	30	121.10	28	120.40	28	104.64

79:105-1. Memphis Light, Gas and Water Division. Kansas St. and McLemore Ave. Lat. 35°06'56", long. 90°03'50". Drilled unused artesian well in sand of Claiborne group, reported diameter 8 inches, reported depth 267 feet. Land-surface datum is 292.0 feet above msl. Highest water level 99.66 below lsd, Jan. 22, 1946; lowest 141.08 below lsd, July 21, 1954. Records available: 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	125.32	Apr. 14	126.69	July 14	139.36	Oct. 12	137.11
13	124.50	21	128.14	21	141.08	19	134.13
20	123.48	28	129.46	27	139.75	26	130.13
27	122.50	May 5	128.77	Aug. 3	138.25	Nov. 2	128.30
Feb. 3	122.96	12	125.86	10	138.31	9	129.63
17	125.20	19	125.83	18	139.46	16	128.66
24	124.48	26	127.74	25	139.59	23	129.70
Mar. 3	126.29	June 2	131.12	Sept. 1	139.59	30	126.22
10	123.85	8	130.83	8	138.22	Dec. 7	125.88
17	126.10	15	133.68	15	138.49	14	125.76
24	126.49	23	135.53	21	139.46	21	126.16
31	126.27	30	137.80	28	138.44	28	123.93
Apr. 7	125.06	July 7	137.94	Oct. 5	138.54		

79:122-1. Reed Bros. Dairy. Beechwood Ave. and Bellevue Blvd. Memphis. Lat. 35°07'07", long. 90°01'28". Drilled unused artesian well in sand of Claiborne group, diameter 8 to 6 inches, reported depth 285 feet. Land-surface datum is about 310 feet above msl. Highest water level 116.45 below lsd, May 6, 1947; lowest 153.05 below lsd, July 19, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	139.17	Mar. 29	137.03	June 28	149.31	Sept. 20	151.12
11	136.72	Apr. 5	137.51	July 5	151.24	27	148.95
18	131.67	12	139.43	12	150.37	Oct. 4	149.76
25	131.46	19	139.70	19	153.05	11	148.03
Feb. 1	132.78	26	140.72	26	151.29	18	146.19
8	135.96	May 3	141.09	Aug. 2	151.63	25	144.20
15	137.39	10	139.49	9	150.87	Nov. 1	142.93
22	137.16	17	139.05	16	151.12	8	142.10
Mar. 1	137.11	24	140.38	23	151.57	15	141.14
8	136.61	June 7	134.92	30	151.74	22	140.63
15	137.84	14	145.53	Sept. 6	150.41	Dec. 20	139.20
22	138.00	21	147.64	13	151.25	27	136.36

79:142-1. Welsh Lumber Co. Florida St. and Bodley Ave. Memphis. Lat. 35°04'57", long. 90°03'49". Drilled unused artesian well in sand of Claiborne group, diameter 4 inches, reported depth 485 feet. Land-surface datum is about 220 feet above msl. Highest water level 20.67 below lsd, Feb. 21, 1950; lowest 55.71 below lsd, July 21, Sept. 1, 1954. Records available: 1946-54.

## 79:142-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	43.19	Apr. 7	42.31	July 7	51.52	Oct. 5	53.21
13	44.04	14	42.39	14	53.38	12	52.13
20	43.09	21	43.32	21	55.71	19	50.73
27	42.57	28	44.16	27	54.93	26	49.17
Feb. 3	42.75	May 5	44.25	Aug. 3	54.91	Nov. 2	47.84
10	43.19	12	43.38	10	54.50	9	47.32
17	43.62	19	43.64	18	54.98	16	47.32
24	42.84	26	44.20	25	55.44	23	46.78
Mar. 3	42.52	June 2	45.47	Sept. 1	55.71	30	45.55
10	42.34	8	45.10	8	53.94	Dec. 7	46.20
17	42.22	15	47.64	15	54.37	14	45.21
24	42.41	23	49.35	21	54.13	21	45.31
31	42.15	30	51.37	28	53.21	28	42.82

79:148-1D. T. D. Ervin. Sloanville. Lat. 35°21'10", long. 89°57'02". Drilled unused artesian well in sand of Wilcox group, diameter 24 to 16 inches, depth 1,558 feet. Land-surface datum is 264.2 feet above msl. Highest water level 33.20 below lsd, Apr. 21, 1947; lowest 49.36 below lsd, Nov. 11-12, 30, 1954. Records available: 1946-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.63	.....	46.92	46.97	46.13	46.13	46.59	47.01	48.48	49.02	49.02	49.26
2	47.55	.....	46.96	46.88	46.07	46.09	46.56	47.01	48.49	49.02	49.15	49.26
3	47.63	.....	47.22	46.87	46.10	46.18	46.55	47.11	48.47	49.03	49.14	49.13
4	47.60	.....	47.22	46.78	46.12	46.27	46.56	47.17	48.51	49.06	49.09	49.05
5	47.49	.....	47.14	46.76	46.03	46.32	46.58	47.24	48.56	49.08	49.17	49.13
6	47.53	.....	47.07	46.71	45.96	46.31	46.57	47.27	48.59	49.21	49.10	49.25
7	47.53	.....	46.98	46.67	46.02	46.31	46.64	47.28	48.60	49.26	49.16	49.25
8	47.43	46.98	46.90	46.84	46.06	46.30	46.69	47.32	48.60	49.27	49.23	49.09
9	47.34	46.79	46.83	46.81	46.13	46.30	46.73	47.43	48.62	49.22	49.28	49.14
10	47.27	46.78	46.70	46.77	46.17	46.31	46.77	47.50	48.66	49.14	49.35	49.14
11	47.38	47.22	46.60	46.81	46.11	46.27	46.77	47.52	48.72	49.04	49.36	49.13
12	47.54	47.28	46.65	46.86	46.03	46.27	46.77	47.58	48.78	49.09	49.36	49.01
13	47.52	47.22	46.87	46.77	45.97	46.28	46.72	47.66	48.77	49.09	49.27	48.93
14	47.33	47.09	46.98	46.62	46.00	46.27	46.76	47.73	48.78	49.20	49.21	48.91
15	47.15	47.08	47.11	46.55	46.05	46.26	46.76	47.77	48.78	49.20	49.15	48.89
16	47.24	47.19	47.14	46.56	46.02	46.27	46.81	47.79	48.84	49.18	49.04	48.90
17	47.29	47.24	47.06	46.61	45.98	46.35	46.79	47.82	48.86	49.21	49.08	48.84
18	47.23	47.19	46.87	46.54	45.98	46.40	46.75	47.88	48.85	49.27	49.08	48.90
19	47.10	47.07	46.66	46.59	45.97	46.41	46.76	47.97	48.83	49.33	49.02	49.01
20	47.04	46.94	46.81	46.63	46.06	46.42	46.75	47.96	48.80	49.26	49.13	49.02
21	47.12	47.04	46.91	46.57	46.09	46.42	46.71	48.03	48.93	49.17	49.13	48.96
22	47.05	47.09	46.86	46.48	46.11	46.46	46.72	48.12	49.01	49.20	49.18	48.95
23	47.03	46.97	46.80	46.45	46.09	46.48	46.71	48.22	49.03	49.23	49.17	48.98
24	46.88	46.92	46.71	46.44	46.09	46.51	46.75	48.26	49.03	49.21	49.14	49.05
25	46.84	46.81	46.76	46.41	46.09	46.51	46.80	48.20	49.00	49.17	49.20	49.05
26	.....	46.84	46.88	46.34	46.10	46.53	46.85	48.19	48.94	49.09	49.20	49.03
27	.....	46.78	46.84	46.25	46.09	46.54	46.86	48.25	48.91	49.09	49.02	49.03
28	.....	46.89	46.78	46.18	46.00	46.56	46.90	48.32	48.89	49.08	49.15	48.91
29	.....	.....	46.73	46.11	46.08	46.61	46.94	48.32	48.95	48.96	49.35	48.86
30	.....	.....	46.80	46.12	46.16	46.61	47.00	48.34	49.02	48.96	49.36	48.84
31	.....	.....	46.92	.....	46.15	.....	47.03	48.44	.....	48.98	.....	48.89

79:149-1. Hugh O. Cobb. Near Brunswick. Lat. 35°17'03", long. 89°45'48". Drilled domestic artesian well in sand of Claiborne group, diameter 3 inches, depth 214 feet. Land-surface datum is about 250 feet above msl. Highest water level 9.14 above lsd, Jan. 18, 1946; lowest 0.64 above lsd, July 11, 1944. Records available: 1944-47, 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+2.97	Mar. 25	+3.37	May 20	+2.77	July 13	+1.10
Feb. 11	3.05	Apr. 8	2.77	June 3	2.89	27	1.00
25	3.53	22	2.55	15	2.48	Aug. 10	.76
Mar. 11	3.13	May 6	3.10				

79:167-1. City of Collierville. Main St. Lat. 35°02'34", long. 89°39'50". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, depth 240 feet. Land-surface datum is about 390 feet above msl. Highest water level 96.30 below lsd, Mar. 18, 1952; lowest 104.64 below lsd, June 15, 1954. Records available: 1944-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	97.74	Apr. 22	98.42	July 13	98.44	Oct. 6	98.33
26	103.99	May 6	97.30	27	97.78	20	98.25
Feb. 11	98.55	20	98.62	Aug. 10	99.45	Nov. 17	98.92
25	98.00	June 3	97.62	24	98.85	Dec. 1	98.05
Mar. 11	98.20	15	104.64	Sept. 7	98.89	15	99.06
25	101.42	29	100.00	22	100.46	28	100.04
Apr. 8	98.37						

79:174-1. J. O. Goshorn Co. Bodley Ave. and Third St. Memphis. Lat. 35°05'02, long. 90°03'15". Drilled unused water-table well in terrace deposits, diameter 4 inches, depth 58 feet. Land-surface datum is about 225 feet above msl. Highest water level 17.66 below lsd, Apr. 18, 1950; lowest 27.51 below lsd, Oct. 26, Nov. 2, 1954. Records available: 1946-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	25.13	Apr. 7	23.56	July 7	24.81	Oct. 5	27.09
13	24.62	14	23.45	14	25.10	12	27.29
20	23.09	21	23.52	21	25.41	19	27.43
27	22.41	28	23.62	27	25.56	26	27.51
Feb. 3	22.85	May 5	22.60	Aug. 3	25.80	Nov. 2	27.51
10	23.69	12	23.02	10	25.48	9	27.44
17	22.25	19	23.22	18	25.85	16	27.47
24	22.65	26	23.65	25	26.60	23	27.41
Mar. 3	22.57	June 2	23.74	Sept. 1	26.32	30	27.44
10	20.75	8	23.82	8	26.56	Dec. 7	27.36
17	23.25	15	24.20	15	26.85	14	27.14
24	23.39	23	24.07	21	26.99	21	27.25
31	23.36	30	24.45	28	27.14	28	27.10

79:175-1. C. W. Bond. Chester St. Arlington. Lat. 35°17'27", long. 89°39'35". Drilled unused artesian well in sand of Claiborne group, diameter 2 inches, depth 200 feet. Highest water level 58.14 below lsd, May 21, 1953; lowest 66.31 below lsd, Oct. 13, 1948. Records available: 1945-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	60.80	Apr. 22	61.90	July 27	62.39	Oct. 20	62.88
26	60.74	May 6	61.17	Aug. 10	62.42	Nov. 3	62.88
Feb. 11	61.63	20	61.81	24	62.52	17	62.88
25	60.88	June 3	61.90	Sept. 7	62.66	Dec. 1	62.98
Mar. 11	61.57	15	61.90	22	62.75	15	62.90
25	61.77	29	62.19	Oct. 6	62.78	28	62.95
Apr. 8	61.84	July 13	62.28				

79:193-1. National Cylinder Gas Co. Tully St. and Sexton Ave. Memphis. Lat. 35°10'28", long. 90°02'01". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 338 feet. Land-surface datum is about 230 feet above msl. Highest water level 68.3 below lsd, Apr. 8, 1951; lowest 110.3 below lsd, July 2, 1954. Records available: 1949-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	90.0	.....	91.4	94.6	.....	99.1	109.7	99.3	94.6	.....	.....	86.2
2	.....	h94.06	92.2	93.8	.....	101.3	110.3	96.1	93.3	.....	h93.43	86.6
3	83.1	95.4	93.8	93.4	.....	102.3	110.0	96.6	93.4	.....	.....	86.8
4	.....	.....	93.2	87.3	h96.55	102.4	103.9	96.3	93.6	.....	.....	87.2
5	93.7	.....	93.8	93.5	.....	99.4	98.0	96.8	93.0	h101.94	.....	87.8
6	95.1	.....	93.4	96.4	.....	93.0	103.4	97.5	91.0	103.3	.....	90.7
7	96.2	.....	88.7	97.2	.....	.....	105.4	96.7	94.5	102.5	.....	92.8
8	96.8	.....	89.3	98.8	.....	100.5	107.4	94.0	97.8	101.6	.....	93.8
9	96.8	h92.25	90.8	98.4	.....	.....	105.4	98.0	101.8	101.2	h91.08	95.0
10	88.6	96.2	91.8	98.3	.....	102.8	102.0	99.8	103.1	100.7	91.2	95.6
11	.....	96.3	91.1	93.5	h97.71	103.5	98.4	100.8	103.0	98.3	91.5	95.8
12	h95.20	96.2	92.7	.....	.....	104.2	100.5	101.7	100.0	100.8	91.1	94.5
13	97.2	96.4	92.6	h94.83	h98.95	102.8	100.5	100.3	98.8	.....	90.4	92.9
14	97.8	89.8	88.0	95.8	98.3	103.3	104.2	96.6	101.4	.....	89.0	93.9
15	98.6	93.2	.....	97.6	98.0	104.2	106.3	95.5	102.6	.....	86.8	94.8
16	98.0	94.5	h92.70	98.0	91.5	105.3	107.3	94.3	103.5	.....	88.0	95.1
17	90.2	.....	93.5	97.6	93.4	105.7	107.1	95.2	104.0	.....	88.0	95.6
18	94.0	.....	93.7	.....	96.0	107.5	97.7	96.4	104.2	.....	88.2	95.9
19	97.3	.....	.....	.....	98.0	107.8	100.8	97.7	103.0	h97.60	88.4	94.4
20	97.4	.....	.....	h96.00	98.7	100.6	102.3	97.6	102.8	98.0	88.7	93.1

## 79:193-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	96.8	.....	88.8	99.0	98.2	102.6	103.5	96.6	103.9	98.2	87.4	94.4
22	96.3	.....	.....	100.2	98.6	104.8	103.1	92.4	103.5	99.1	86.0	94.6
23	96.5	94.5	h92.20	.....	94.4	106.0	104.3	91.4	102.9	98.8	86.6	95.3
24	89.5	95.2	93.0	.....	.....	105.5	103.6	93.1	103.5	92.6	87.5	94.7
25	.....	95.0	93.8	.....	100.2	106.7	99.7	93.7	.....	93.7	87.0	86.6
26	h94.40	91.6	.....	.....	101.0	106.1	.....	94.8	.....	h96.76	83.5	81.6
27	94.7	89.9	93.2	h98.32	102.1	103.4	h102.72	94.7	.....	.....	84.2	86.8
28	95.3	88.6	87.9	.....	102.2	106.6	103.8	94.8	104.7	.....	83.9	89.2
29	95.9	.....	91.4	.....	100.6	108.4	105.3	94.7	104.8	.....	83.7	90.5
30	.....	.....	93.2	.....	92.0	109.4	105.7	93.6	104.2	.....	85.1	91.3
31	.....	.....	93.3	.....	92.4	.....	105.5	95.2	.....	.....	.....	91.6

h Tape measurement.

## Williamson County

94:1-1. Tennessee Division of Geology and U. S. Geol. Survey. Near Franklin. Lat. 35°55'02", long. 86°54'11". Drilled observation artesian well in Knox dolomite, diameter 6 inches, depth 1,160 feet. Land-surface datum is about 725 feet above msl. Highest water level 84.21 below lsd, Mar. 10, 1952; lowest 114.81 below lsd, Jan. 31, 1950. Records available: 1950-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	85.08	85.11	84.79	85.08	84.97	84.80	85.09	85.03	85.11	85.09	.....	85.01
2	85.03	84.94	84.80	85.04	84.90	84.78	85.06	84.92	85.13	85.03	.....	85.34
3	85.14	84.74	85.03	85.10	84.87	84.69	85.02	84.97	85.09	.....	.....	85.34
4	85.13	84.77	85.14	85.01	84.95	84.86	84.98	85.00	85.12	.....	.....	85.22
5	84.91	84.79	85.10	85.05	84.86	84.95	84.91	84.99	85.17	.....	.....	85.17
6	85.10	84.90	85.06	84.98	84.78	84.94	84.89	84.94	85.16	.....	.....	85.04
7	85.10	85.05	84.97	84.90	84.75	84.90	84.84	84.93	85.11	.....	.....	h85.23
8	85.03	85.00	84.91	85.08	84.84	84.91	84.86	84.95	85.09	.....	85.11	85.21
9	84.95	84.70	84.80	85.05	84.89	84.92	84.91	85.06	85.06	.....	85.07	85.15
10	84.85	84.64	84.63	85.07	84.95	84.93	84.95	85.10	84.98	.....	85.16	85.27
11	84.98	85.05	84.55	85.09	84.91	84.90	85.00	85.13	85.05	.....	85.25	85.27
12	85.27	85.16	.....	85.17	84.85	84.91	85.00	85.15	85.13	.....	85.28	85.21
13	85.26	85.14	84.68	85.08	84.79	84.96	84.93	85.16	85.11	.....	85.39	84.99
14	85.14	85.01	84.97	84.92	84.77	84.95	84.95	85.16	85.10	.....	85.38	84.96
15	84.95	84.95	85.17	84.86	84.89	84.92	84.94	85.15	85.09	.....	85.38	85.02
16	84.97	84.93	85.25	84.70	84.90	84.84	85.02	85.06	85.11	.....	85.25	85.03
17	85.06	85.04	85.24	84.86	84.85	84.95	84.98	85.05	85.11	.....	85.16	84.92
18	85.06	85.05	85.03	84.87	84.82	85.02	84.93	85.07	85.07	.....	85.06	84.88
19	84.98	85.31	84.77	84.99	84.78	84.89	84.94	85.06	84.99	.....	84.89	85.08
20	84.90	84.72	84.76	85.10	84.89	84.97	84.90	85.12	84.96	.....	84.90	85.08
21	84.87	84.87	85.00	85.05	84.96	84.92	84.87	85.21	85.03	.....	84.90	85.08
22	84.90	84.97	84.95	84.98	84.98	84.88	84.85	85.29	85.13	.....	84.73	85.01
23	84.97	84.81	84.91	84.96	84.97	84.97	84.85	85.27	85.16	.....	84.87	85.04
24	84.94	84.71	84.82	84.97	84.93	84.97	84.92	85.16	85.18	.....	84.94	85.22
25	84.98	84.62	84.75	84.95	84.89	84.98	84.97	85.08	85.13	.....	84.99	85.24
26	84.95	84.63	84.98	84.90	84.91	84.97	85.03	85.09	85.04	.....	84.90	85.25
27	85.08	84.49	84.97	84.81	84.90	85.00	85.03	85.12	84.96	.....	84.87	85.24
28	85.08	84.62	84.89	84.72	84.77	85.03	85.02	85.09	84.97	.....	84.99	85.11
29	85.03	.....	84.84	84.76	84.82	85.05	85.03	85.02	85.04	.....	84.97	84.98
30	85.13	.....	84.80	84.88	84.97	85.05	85.15	85.09	85.08	.....	84.81	85.12
31	85.13	.....	84.94	.....	84.96	.....	85.12	85.09	.....	.....	.....	85.12

h Tape measurement.

## VIRGINIA

By Paul M. Johnston and Allen Sinnott

### Scope of Water-Level Program

The observation-well program in Virginia was continued in 1954 in cooperation with the Virginia Division of Geology (formerly Virginia Geological Survey). In northern Virginia, month-end tape measurements were made in 5 wells; in eastern Virginia, measurements were made in 8 wells, 2 of which are equipped with recording gages. Figure 45 shows the location of the observation wells in Virginia.

### Precipitation

The precipitation and departure from normal, recorded by the U. S. Weather Bureau at the Washington National Airport in 1954, are representative of the precipitation in the northern part of Virginia. The following table shows that the precipitation was 12.20 inches below normal in 1954.

Precipitation at Washington, D. C., 1954

Month	Recorded precipitation	Normal precipitation	Departure from normal	Accumulated departure from normal
January	2.30	3.24	-0.94	-0.94
February	.85	2.44	-1.59	-2.53
March	3.47	3.03	+.44	-2.09
April	3.30	3.06	+.24	-1.85
May	2.98	3.98	-1.00	-2.85
June	1.24	3.41	-2.17	-5.02
July	1.70	4.26	-2.56	-7.58
August	3.15	4.75	-1.60	-9.18
September	.63	4.12	-3.49	-12.67
October	4.06	2.85	+1.21	-11.46
November	1.78	2.73	-.95	-12.41
December	2.82	2.61	+.21	-12.20
	28.28	40.48	-12.20	-12.20

### Interpretation of Water-Level Fluctuations

**Northern Virginia.** --Observation wells in northern Virginia range in depth from 7 to 35 feet. The Bell and Swart wells are 7 and 10 feet deep, respectively, in alluvium of Recent age. The Bacon well is 24 feet deep in weathered quartz-mica schist. The Halls Hill and Ross wells, 35 and 28 feet deep, respectively, end in decomposed granitic rock overlain by sands and gravels of Pliocene(?) and Pleistocene ages. All the wells are shallow; hence, variations in precipitation are reflected rapidly in the water levels. The deficiency in precipitation in 1954 is reflected in a decline of water levels in all the wells except the Swart well in the flood plain of Difficult Run.

The following table shows the water level in each well at the beginning and end of 1954, the net change (+rise, -decline), the highest and lowest levels recorded during the year, and the range in level.

Water levels in five observation wells in northern Virginia

Well	Dec. 31 1953	Dec. 30 1954	Net change	Highest	Lowest	Range in level
Halls Hill	26.76	27.58	-0.82	24.88	29.50	4.62
Ross	23.79	25.08	-1.29	22.22	25.08	2.86
Bacon	16.30	19.88	-3.58	15.27	20.11	4.84
Bell	4.19	5.80	-1.61	1.23	16.37+	5.14+
Swart	1.26	1.18	+.08	1.12	3.00	1.88

f Dry.



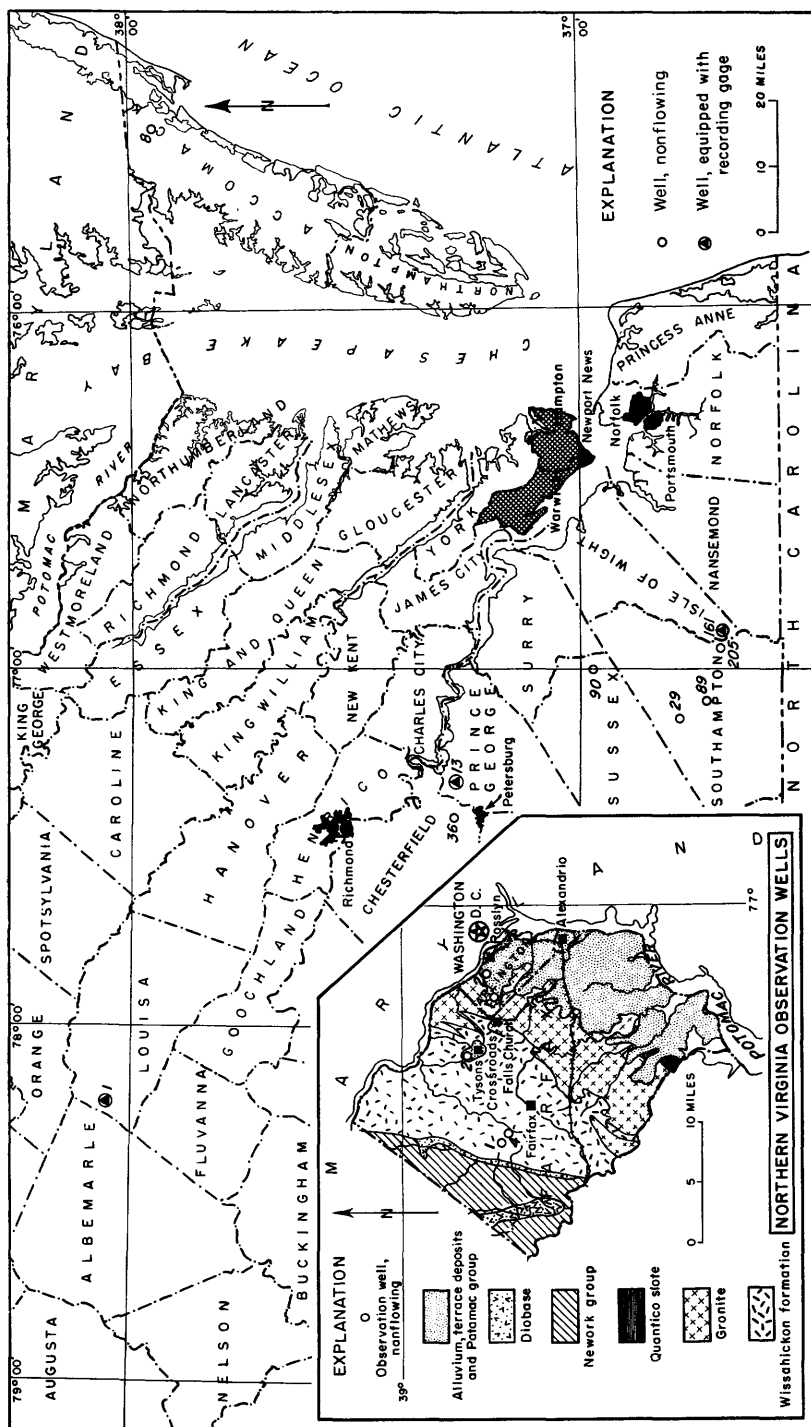


Figure 45. --Location of observation wells in Virginia, 1954.

The water level in the Bacon well declined 3.58 feet in 1954. This well was pumped intermittently after July 31 for the first time in many years. The greatest decline in a well unaffected by pumping was 1.61 feet in the Bell well. In 1953 the water level in this well had declined 2.81 feet. The greatest range in water level (more than 5.14 feet) also occurred in this well, which was dry from August to November. The average net decline for the two deepest wells (Halls Hill and Ross) was 1.05 feet.

**Eastern Virginia.** --In 1954, the range of fluctuation of the water level in Accomack County well 8 at the Chincoteague Naval Auxiliary Air Station was less than 1 foot. The high for the year was on March 29; the low, on September 8. The 1954 year-end level was 0.1 foot below that of 1953.

Reflecting the drought in the summer and early fall of 1954, the water level in Chesterfield County well 36 declined from June through November, when it was more than 1 foot lower than at the end of 1953 but still  $1\frac{1}{2}$  feet above the lowest of record. The rainfall at Richmond was 11.44 inches below normal in 1954, compared with 9.16 inches below normal in 1953.

The water level in Isle of Wight County well 161 at the pulp mill in East Franklin continued to decline in response to heavy industrial pumping, reaching a record low in mid-October of 50.17 feet. The recent lows of record have been 44.10 feet, November 2, 1953; 35.07, October 27, 1952; 32.85, September 17, 1951; and 27.61, December 18, 1950. Temporary recovery of several feet occurred when the mill was shut down over holidays.

Because of deficient rainfall in the fall of 1953, the spring recovery of the water level in Louisa County well 1 was more than 8 feet lower than the record high of April 4, 1953. Because of the prolonged drought in the summer of 1954, the water level reached a record low on November 1. In response to ample rainfall accompanying hurricane "Hazel" in the fall of 1954, the water level recovered more than 2 feet. The December month-end measurement in 1954 was slightly higher than the 1953 end-of-year measurement.

The usual seasonal fluctuation pattern was noted in Prince George County well 13 at the Old Dominion Water Corp. in Hopewell. Artificial recharge of cold water was probably carried on from mid-January to early May at the nearby Solvay Process plant. The water level was lowered from June to early November because of the pumping that began late in May. When the pumping stopped in November, the water level recovered, rising to 37.86 feet on December 31.

Pumping from recently constructed industrial wells at Franklin apparently caused the decline in water level in Southampton County well 29 at Sebrell to continue in 1954. The record low of November 30 was nearly 2 feet below the 1953 low and 4 feet below the 1952 low.

In 1953, measurements in Southampton County well 205 at Franklin showed a pattern of steady decline, reaching a record low in December that was nearly 4 feet below the 1952 low. In 1954, although a record low was reached on July 31, the steady decline observed in 1953 subsided. At the end of 1954, the level had recovered to  $53\frac{1}{2}$  feet-- $2\frac{1}{2}$  feet below the year-end measurement in 1953.

The water level in Sussex County well 90 at Wakefield continued to decline in 1954, reaching a new low on September 7. The decline is believed to be caused by the heavy industrial pumping at Franklin, about 20 miles to the south-southeast. There was a recovery of about 1 foot by the end of 1954.

#### Well-Numbering System

Observation wells in Virginia are listed alphabetically by counties and serially within each county.

#### Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

##### Accomack County

8. U. S. Naval Auxiliary Air Station well B-8. Near Chincoteague. Lat.  $37^{\circ}56'$ , long.  $75^{\circ}28'$ . Drilled unused water-table well in sands of Columbia group, diameter 8 inches, depth 60 feet. Land-surface datum is 34.10 feet above msl. Highest water level 24.41 below lsd, Sept. 7, 1949; lowest 29.86 below lsd, Sept. 10, 1951. Records available: 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	27.65	Feb. 15	27.57	Apr. 5	27.32	May 17	27.45
13	27.71	23	27.59	12	27.30	24	27.41
18	27.74	Mar. 2	27.62	19	27.43	June 2	27.36
28	27.76	18	27.35	26	27.26	7	27.35
Feb. 1	27.72	22	27.36	May 3	27.35	14	27.50
8	27.64	29	27.15	10	27.45	21	27.53

## 8--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 28	27.65	Aug. 9	27.78	Sept. 27	27.80	Nov. 22	27.81
July 6	27.58	23	27.88	Oct. 5	27.90	29	27.83
12	27.61	30	27.88	12	27.67	Dec. 7	27.74
19	27.67	Sept. 8	27.93	18	27.78	14	27.77
26	27.75	13	27.90	Nov. 1	27.82	20	27.81
Aug. 2	27.75	20	27.81	15	27.83	27	27.74

Arlington County

1. Halls Hill. Langston School. Lee Highway and North Culpeper St. Lat.  $38^{\circ}53'46''$ , long.  $77^{\circ}07'37''$ . Dug unused water-table well in sands, gravels, and decomposed granite bedrock, diameter 24 inches, depth 35 feet. Highest water level 17.74 below lsd, Apr. 20, 1935; lowest 34.80 below lsd, Jan. 4, 1932. Records available: 1932-54.

Feb. 1	26.53	Apr. 30	25.46	Aug. 2	26.80	Nov. 1	29.00
Mar. 1	26.40	June 1	24.88	Sept. 1	27.57	30	29.50
31	25.03	30	25.62	30	28.30	Dec. 30	27.58

2. Ross. 1918 North Wayne St., Rosslyn. Lat.  $38^{\circ}53'46''$ , long.  $77^{\circ}05'19''$ . Dug unused water-table well in sands, gravels, and decomposed granite bedrock, diameter 25 inches, depth 28 feet. Highest water level 15.85 below lsd, May 20, 1933; lowest 25.42 below lsd, Mar. 21, 28, 1931. Records available: 1928-54.

Feb. 1	23.50	Apr. 30	22.72	Aug. 2	23.48	Nov. 1	24.73
Mar. 1	23.33	June 1	22.22	Sept. 1	24.04	30	24.94
31	22.91	30	22.81	30	24.47	Dec. 30	25.08

Chesterfield County

36. J. W. Jacot. Pilcher well, at Matoaka Manor. Lat.  $37^{\circ}17'$ , long.  $77^{\circ}25'$ . Drilled unused water-table well in Petersburg granite, diameter 6 inches, depth 139 feet. Land-surface datum is 57.30 feet above msl. Highest water level 12.09 below lsd, Apr. 1, 1952; lowest 19.09 below lsd, Jan. 14, 1942. Records available: 1939-54.

Jan. 28	14.96	May 11	14.86	July 29	16.09	Nov. 4	17.57
Feb. 23	14.47	June 8	14.53	Sept. 1	16.84	30	17.76
Mar. 31	14.32	29	15.14	30	17.43		

Fairfax County

1. Bacon. Fair Acres Farm. Near Fairfax on U. S. Highway 50. Lat.  $38^{\circ}51'52''$ , long.  $77^{\circ}21'13''$ . Dug unused water-table well in weathered quartz-mica schist, diameter 4 feet, depth 24 feet. Highest water level 9.63 below lsd, Apr. 30, 1952; lowest 23.58 below lsd, Dec. 26, 1931. Records available: 1931-54. Pumped intermittently after July 31, 1954.

Feb. 1	15.67	Apr. 30	15.32	Aug. 2	18.32	Nov. 1	19.67
Mar. 1	15.70	June 1	15.70	Sept. 1	18.64	30	20.11
31	15.27	30	16.84	30	19.17	Dec. 30	19.88

2. Bell Ash Grove. Lat.  $38^{\circ}55'42''$ , long.  $77^{\circ}14'25''$ . Augured water-table well in alluvium of Recent age, diameter 2 inches, depth 7 feet. Highest water level 0.02 below lsd, Nov. 29, 1948; lowest 14.43 below lsd, Oct. 1, 1932. Records available: 1932-54.

Feb. 1	2.28	Apr. 30	2.35	Aug. 2	(f)	Nov. 1	(f)
Mar. 1	1.23	June 1	3.56	Sept. 1	(f)	30	(f)
31	1.93	30	f6.37	30	(f)	Dec. 30	5.80

f Dry.

4. Swart. Near Fairfax on U. S. Highway 50 at Difficult Run. Lat.  $38^{\circ}51'48''$ , long.  $77^{\circ}20'48''$ . Dug water-table well in alluvium of Recent age, diameter 25 inches, depth 10 feet. Highest water level 0.21 below lsd, Apr. 7, 1939; lowest 3.83 below lsd, Sept. 25, 1936. Records available: 1932-54.

Feb. 1	1.22	Apr. 30	1.21	Aug. 2	2.65	Nov. 1	1.69
Mar. 1	1.12	June 1	1.33	Sept. 1	1.79	30	1.56
31	1.20	30	1.90	30	3.00	Dec. 30	1.18

Isle of Wight County

161. Camp Manufacturing Co. Lat. 36°40', long. 76°55'. Drilled artesian well in sand of Potomac group, diameter 6 to 4 inches, depth 605 feet. Land-surface datum is 14.80 feet above msl. Highest water level 7.10 above lsd, Nov. 27, 1941; lowest 50.17 below lsd, Oct. 18, 1954. Records available: 1941-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	38.98	Apr. 5	41.77	July 5	38.85	Oct. 11	44.78
12	39.32	12	41.28	12	46.01	18	50.17
18	39.45	19	46.15	19	46.32	25	49.90
25	43.95	26	46.60	26	46.89	Nov. 1	49.52
Feb. 1	44.58	May 3	47.34	Aug. 9	48.80	8	47.70
8	42.70	10	44.50	16	49.11	15	49.60
15	40.90	17	47.13	23	45.37	22	49.10
23	40.27	24	46.45	30	45.90	30	50.13
Mar. 2	43.20	31	43.70	Sept. 7	36.40	Dec. 7	49.03
8	45.29	June 7	47.36	13	48.84	13	48.50
15	41.55	14	45.33	20	48.50	20	48.78
22	45.48	21	47.45	25	49.25	27	46.50
29	46.04	28	48.26	Oct. 4	49.52		

Louisa County

1. Tyler well. Near Thelma, 3 miles southwest of Boswell's Tavern on Tyler property near State Route 640. Lat. 38°02', long. 78°14'. Drilled observation water-table well in Wissahickon formation, diameter 6 inches, depth 56 feet. Land-surface datum is about 500 feet above msl. Highest water level 15.10 below lsd, Apr. 24, 1953; lowest 30.04 below lsd, Nov. 1, 1954. Records available: 1952-54.

Jan. 4	27.86	Apr. 5	24.15	July 5	24.46	Oct. 4	29.63
11	27.94	12	24.02	12	24.94	11	29.78
18	28.16	19	23.82	19	25.36	18	29.88
25	27.86	26	23.58	26	25.88	25	29.97
Feb. 1	27.08	May 3	23.38	Aug. 2	26.34	Nov. 1	30.04
8	26.59	10	23.47	9	26.84	8	29.98
15	26.36	17	23.51	16	27.35	15	29.89
22	26.24	24	23.47	23	27.85	22	29.87
Mar. 2	25.87	June 1	23.31	30	28.26	29	29.82
8	25.50	7	23.43	Sept. 6	28.69	Dec. 6	29.62
15	25.11	14	23.57	13	29.00	13	29.40
22	24.70	21	23.80	20	29.16	20	28.23
29	24.29	28	24.13	27	29.41	27	27.70

Prince George County

13. Old Dominion Water Corp. Hopewell. Lat. 37°18', long. 77°16'. Drilled unused artesian well in sands of Potomac group, diameter 6 inches, reported depth 300 feet. Land-surface datum is 50.26 feet above msl. Highest water level 20.73 below lsd, Jan. 25, 1954; lowest 56.95 below lsd, Aug. 14, 1943. Records available: 1939-54.

Jan. 1	36.53	Apr. 2	36.02	July 2	48.51	Oct. 1	48.20
8	36.51	9	36.11	9	48.66	8	48.44
15	36.34	16	35.72	16	48.79	16	47.79
25	20.73	23	35.92	23	48.64	23	48.22
29	35.96	30	35.89	30	48.70	30	47.90
Feb. 5	35.66	May 7	35.71	Aug. 6	48.58	Nov. 5	47.26
12	35.96	14	37.51	13	49.57	12	43.05
19	36.16	21	38.89	20	43.01	19	40.28
26	35.64	28	45.39	27	48.54	26	38.91
Mar. 5	35.59	June 4	46.36	Sept. 3	48.31	Dec. 3	38.11
12	36.59	11	47.34	10	48.29	10	37.31
19	35.90	18	48.60	17	48.27	21	36.86
26	35.91	25	48.26	24	48.34	31	37.86

Southampton County

29. Virginian Railway. Sebrell. Lat. 36°47', long. 77°08'. Drilled unused artesian well in sand and gravel of pre-Miocene age, diameter 10 inches, depth 344 feet. Land-surface datum is 58.4 feet above msl. Highest water level 15 below lsd, 1907; lowest 39.21 below lsd, Nov. 30, 1954. Records available: 1907, 1938, 1940-46, 1948-54.

## 29--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	37.08	May 11	37.31	July 29	37.81	Nov. 4	39.00
Feb. 23	37.29	June 8	37.44	Sept. 1	38.27	30	39.21
Mar. 31	37.29	29	37.64	30	38.66		

89. Southampton County Courthouse. Courtland. Lat. 36°43', long. 77°04'. Jetted unused artesian well in sand of pre-Miocene age, diameter 2 inches, depth 125 feet. Land-surface datum is about 29 feet above msl. Highest water level 2.76 below lsd, Feb. 6, 1942; lowest 15.62 below lsd, Oct. 1, 1952. Records available: 1942-46, 1949-53. No measurement made in 1954.

205. Town of Franklin. Fifth Ave. and Middle St. Lat. 36°41', long. 76°55'. Jetted unused artesian well in sands of Potomac group, diameter 4 inches, depth 354 feet, cased to 335, screen 335-354. Land-surface datum is 21.24 feet above msl. Highest water level 14.5 below lsd, June 25, 1942; lowest 58.0 below lsd, July 31, 1954. Records available: 1942-54.

Jan. 2	54.5	Apr. 3	48.5	July 3	55.0	Oct. 2	57.2
9	45.5	10	48.5	10	51.5	9	53.3
16	46.5	17	52.5	17	54.5	16	55.5
23	51.0	24	53.0	24	54.1	23	56.0
30	51.7	May 1	53.5	31	58.0	30	55.5
Feb. 6	51.0	8	52.0	Aug. 7	56.5	Nov. 6	55.5
13	49.5	15	53.5	14	55.0	13	57.2
20	47.0	22	53.0	21	54.5	20	56.0
27	49.5	29	50.5	28	57.5	27	55.0
Mar. 6	51.0	June 5	53.0	Sept. 4	57.0	Dec. 4	54.8
13	50.0	12	53.5	11	56.3	11	56.0
20	52.0	19	55.0	18	55.8	18	55.0
27	52.0	26	54.5	25	55.8	25	53.5

Sussex County

90. Jeb S. White. Wakefield. Lat. 36°58', long. 76°59'. Drilled unused artesian well in sand and gravel of Potomac group, diameter 3 inches, depth 225 feet. Land-surface datum is 100.7 feet above msl. Highest water level 63.55 below lsd, Apr. 16, 1940; lowest 78.83 below lsd, Sept. 7, 1954. Records available: 1938, 1940-54.

Jan. 6	75.84	Apr. 6	78.89	July 6	78.04	Oct. 5	78.33
12	76.00	13	77.30	13	77.86	12	78.49
19	75.94	20	76.70	20	78.40	19	78.02
26	75.90	27	76.84	27	78.58	26	78.10
Feb. 3	76.35	May 4	76.94	Aug. 3	78.41	Nov. 2	78.18
9	75.73	11	77.03	10	78.45	9	77.93
16	76.79	18	77.95	17	78.63	16	78.18
23	76.21	25	77.29	26	78.61	24	77.98
Mar. 2	75.67	June 1	77.29	Sept. 1	78.38	30	78.04
9	76.60	7	77.65	7	78.83	Dec. 7	77.59
16	76.76	15	77.63	14	78.27	14	77.70
23	76.76	22	77.34	21	78.32	21	77.54
30	76.60	29	78.01	28	78.42	28	77.62

## WEST VIRGINIA

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By C. W. Carlston

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### Scope of Water-Level Program

The observation-well program, begun in 1941 in cooperation with the West Virginia Geological and Economic Survey, was continued in 1954. Measurements of water levels were made in 17 wells, 4 of which are equipped with recording gages. Figure 46 shows the location of observation wells in West Virginia. A report on the ground-water resources of the Ohio River valley in West Virginia was completed.

### Precipitation

In 1954, precipitation was greatly above normal in the central part and below normal in the southwestern part of the State. Elsewhere, precipitation was slightly to moderately above normal. During the first half of 1954, precipitation throughout the State was below normal to slightly above normal, February being the driest since 1941. July and August, as a result of high precipitation accompanying hurricane "Hazel," were months of high rainfall, and October was the rainiest since 1937. The hurricane rainfall affected all but the southwestern part of the State.

### Pumpage

Heaviest ground-water pumpage in the State is along the Ohio River valley, where thick permeable alluvium adjacent to the river permits induced river infiltration. Daily pumpage for municipal, industrial, and domestic use is estimated at more than 60 mgd (million gallons per day). Near Follansbee, in Brooke County, 10 mgd was pumped by 7 industries. In the Parkersburg area, Wood County, daily pumpage was about 10 mgd, of which the city pumped an average of 4.6 mgd. Slightly less than 3 mgd was pumped in the Huntington area in Cabell and Wayne Counties. The highly industrialized Charleston area on the Kanawha River was estimated to have an average ground-water pumpage of 2.7 mgd in 1946. Later estimates are not available.

### Interpretations of Water-Level Fluctuations

Figures 47 and 48 show fluctuations of 6 observation wells in West Virginia as compared with monthly departures from normal precipitation at 2 U. S. Weather Bureau stations in West Virginia. Barbour County well 14-1-1, Gilmer County well 33-3-1, Monongalia County well 9-2-2a, Preston County well 11-3-8, and Tucker County well 15-5-1 are in the central and northern parts of the State. Precipitation data representative of the area are given by means of monthly departures from normal precipitation for the U. S. Weather Bureau station at Morgantown Lock and Dam, Monongalia County. The precipitation graph and graphs for water levels of Monongalia County well 9-2-2a and Preston County well 11-3-8 show that drought conditions began in the northern part of the State in September 1952. The drought was temporarily relieved by above-normal precipitation in January, April, and May, 1953. Ensuing deficiencies of precipitation resulted in record-low ground-water levels in the last part of 1953, chiefly during November. In 1954, heavy rainfall in August and the rainfall accompanying hurricane "Hazel" in October raised ground-water levels in the last half of the year. The graph for the water levels of Wayne County well 50-1-5 (fig. 48) and the graph of monthly departures from normal precipitation at the Huntington Weather Bureau station, Cabell County, are representative of conditions in the southwestern part of the State. During the period July 1952 to November 1954, the water level in Wayne County well 50-1-5 remained below average. New low water levels were recorded for January 1953, for October 1953 through June 1954, and for September 1954. Heavy rains in December 1954 raised the water level in this well to an above-average level at the end of the month for the first time since June 1952.

A new low for the period of observation was recorded on January 21, 1954, for Monongalia County well 9-6-27. A new high water level for the period of observation was recorded on July 26, 1954, for Marshall County well 4-3-8.

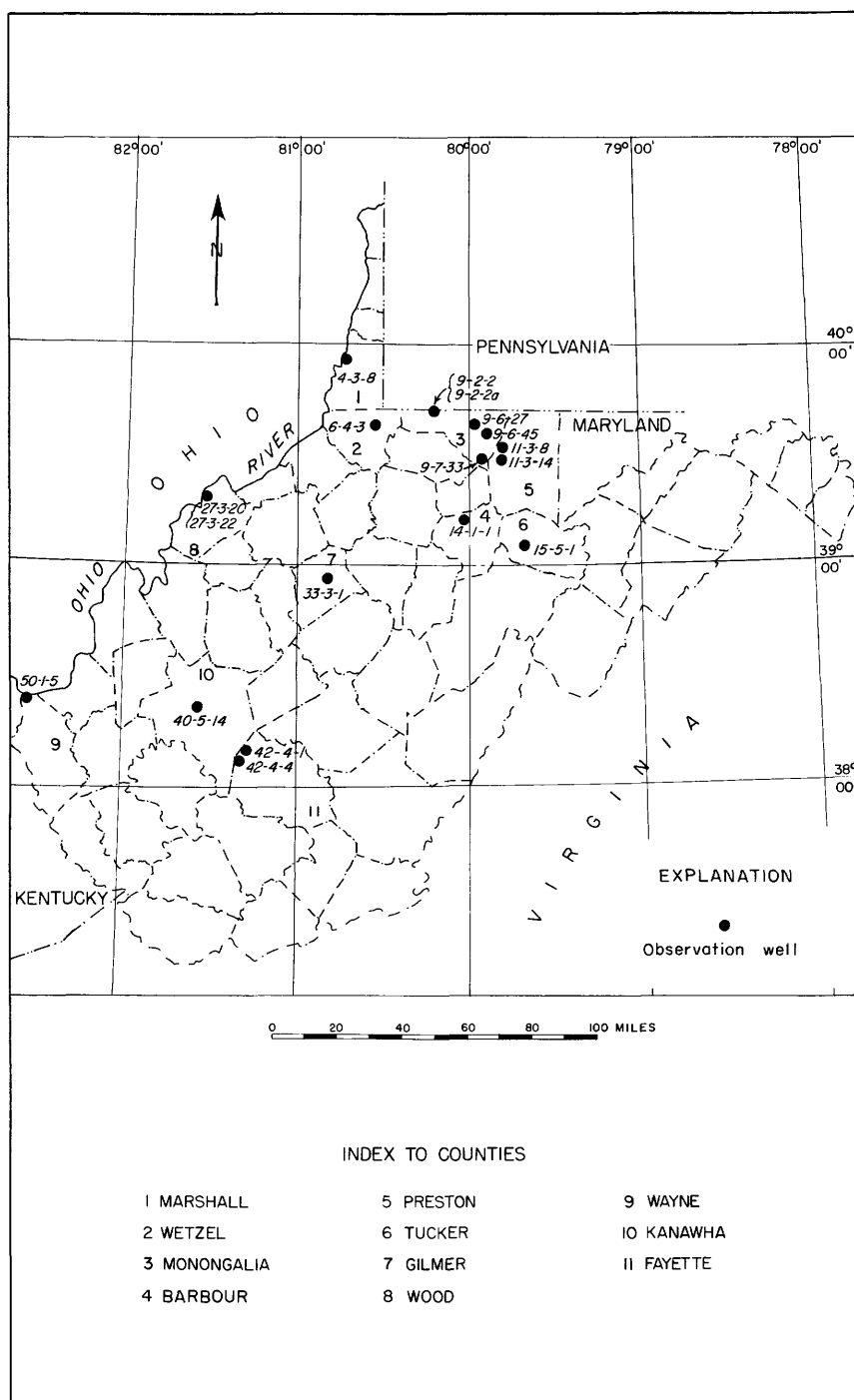


Figure 46. --Location of observation wells in West Virginia, 1954.

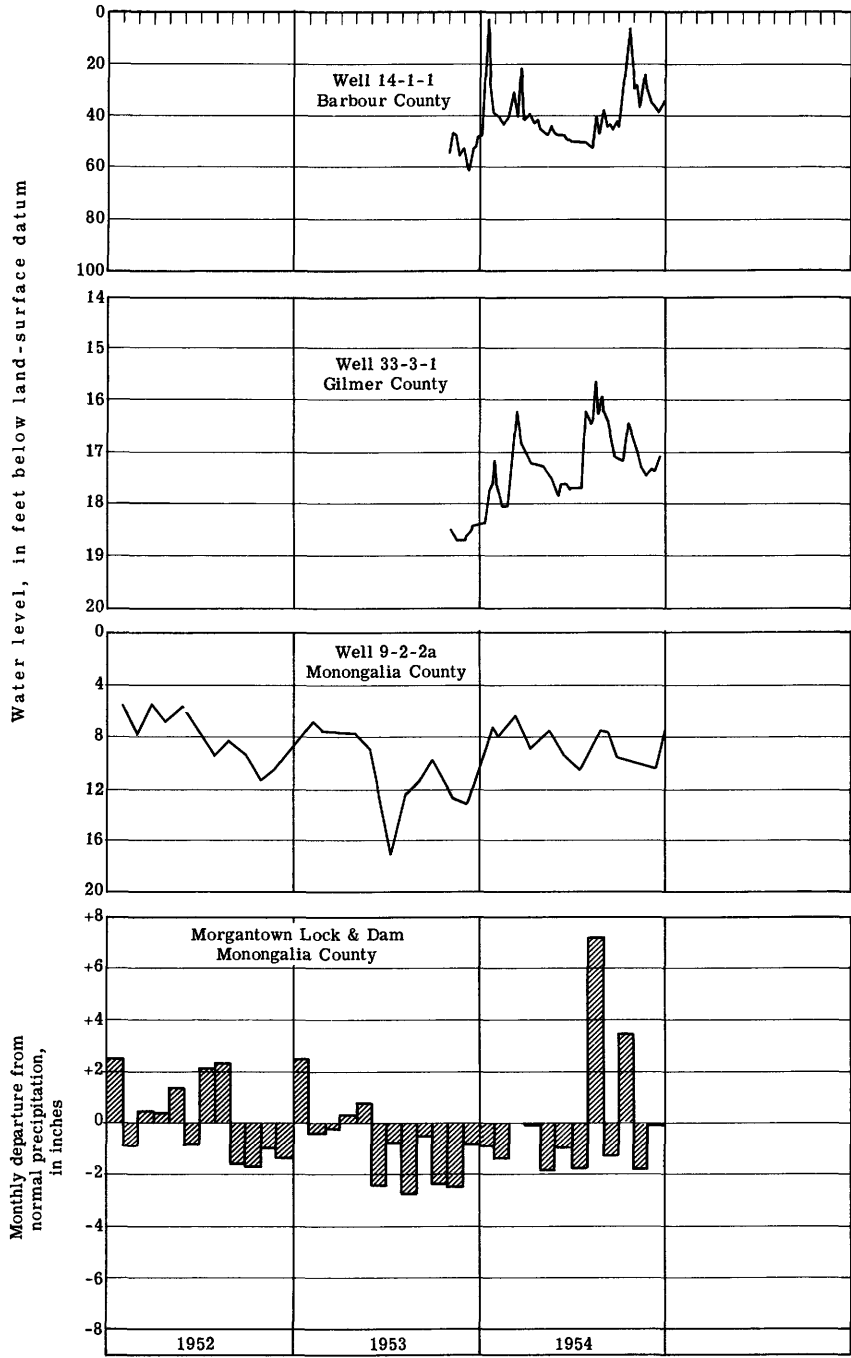


Figure 47. --Water levels in wells Barbour 14-1-1, Gilmer 33-3-1, and Monongalia 9-2-2a and monthly departure from normal precipitation at Morgantown, W. Va.



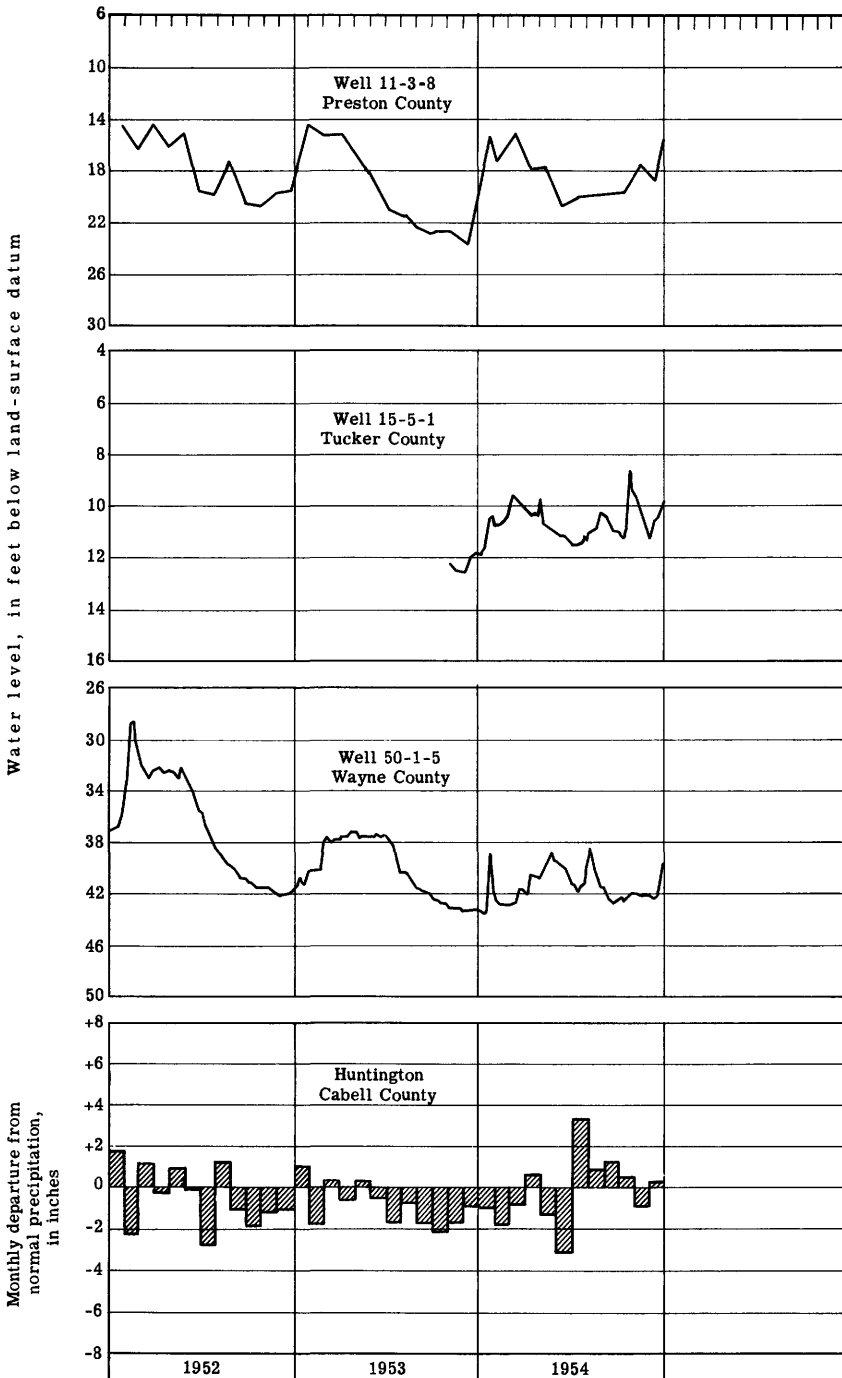


Figure 48. --Water levels in wells Preston 11-3-8, Tucker 15-5-1, and Wayne 50-1-5 and monthly departure from normal precipitation at Huntington, W. Va.

## Well-Numbering System

Observation wells in West Virginia are assigned a three-part number indicating their location by county and magisterial district. For this purpose, the counties have been numbered consecutively in a general southward direction beginning with Hancock County, which is at the northernmost tip of the State. The magisterial districts within each county are numbered consecutively according to the same plan; then the wells within the district are numbered consecutively as they are surveyed. Thus, the number 9-6-27, assigned to a well in Morgantown, indicates it is well 27 in district 6 (Morgan District) of county number 9 (Monongalia County).

## Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Barbour County

14-1-1. U. S. War Department. Lat.  $39^{\circ}14'23''$ , long.  $80^{\circ}01'57''$ . Pleasant Creek Church. Drilled used well in sandstone of Conemaugh formation, diameter 6 inches, depth 110 feet, cased to 6 feet. Land-surface datum is about 1,160 feet above msl. Highest water level 4.30 below lsd, Jan. 15, 1954; lowest 62.33 below lsd, Dec. 5, 1953. Records available: 1953-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 29, 1953	54.40	Feb. 12, 1954	41.75	May 28, 1954	46.48	Sept. 24, 1954	42.87
Nov. 5	47.00	18	44.30	June 3	46.84	30	45.81
12	48.50	25	41.25	10	47.70	Oct. 8	28.99
14	48.40	Mar. 3	30.80	18	49.28	15	16.97
19	56.50	11	41.35	24	49.30	16	5.02
26	52.20	15	21.04	July 1	50.34	18	22.50
Dec. 5	62.33	22	43.90	9	50.39	23	30.92
12	58.90	26	39.91	23	50.59	30	26.07
16	53.00	Apr. 1	39.90	Aug. 3	53.80	Nov. 5	29.34
24	52.00	8	42.76	9	45.60	12	38.20
30	49.88	15	44.35	13	39.00	18	24.32
Jan. 7, 1954	48.70	23	41.40	21	49.35	25	30.08
15	4.30	28	46.50	27	37.30	Dec. 1	36.99
22	26.40	May 5	46.92	Sept. 4	45.93	15	38.22
28	37.90	13	48.00	11	44.06	22	39.96
Feb. 4	41.92	21	44.98	18	46.04	29	36.13

Fayette County

42-4-1. Baldwin Supply Co. 407 Fourth Ave., Montgomery. Lat.  $38^{\circ}10'57''$ , long.  $81^{\circ}19'47''$ . Drilled unused artesian well in Pottsville group, diameter 6 inches, depth 95 feet. Land-surface datum is about 600 feet above msl. Highest water level 21.76 below lsd, Feb. 6, 1950; lowest 33.84 below lsd, July 26, 1948. Records available: 1942-53. No measurement made in 1954.

42-4-4. Fayette Bottling & Ice Co. Montgomery. Lat.  $38^{\circ}10'48''$ , long.  $81^{\circ}19'27''$ . Drilled used well in sandstone of Kanawha formation, diameter 8 inches, depth 154 feet. Land-surface datum is about 625 feet above msl. Highest water level 35.68 below lsd, Apr. 6, 1954; lowest 53.65 below lsd, Aug. 10, 1954. Records available: 1954.

Mar. 23	43.54	June 1	46.97	Aug. 17	47.92	Nov. 2	49.88
30	35.81	8	46.54	24	47.38	9	50.89
Apr. 6	35.68	15	47.09	31	46.62	16	49.87
13	42.89	22	47.63	Sept. 7	46.48	23	49.60
20	42.84	29	47.54	21	47.68	30	49.49
27	42.65	July 6	47.89	28	47.72	Dec. 6	48.79
May 4	43.14	20	47.42	Oct. 5	47.92	14	49.30
11	43.20	27	47.87	12	47.97	21	49.62
18	44.52	Aug. 3	48.72	19	49.82	28	49.83
25	45.94	10	53.65	26	49.85		

Gilmer County

33-3-1. Glenville State College. Glenville. Lat.  $38^{\circ}56'04''$ , long.  $80^{\circ}49'59''$ . Dug unused well in upper part of Conemaugh formation, diameter 3 feet, depth 25 feet. Land-surface datum is about 820 feet above msl. Highest water level 15.60 below lsd, Aug. 8, 1954; lowest 18.75 below lsd, Nov. 30, 1953. Records available: 1953-54.

## 33-3-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 2, 1953	18.54	Feb. 22, 1954	18.09	June 6, 1954	17.89	Sept. 19, 1954	17.17
11	18.67	28	18.08	13	17.65	26	17.19
16	18.72	Mar. 7	17.06	20	17.62	Oct. 3	17.27
24	18.74	14	16.27	27	17.70	10	17.08
30	18.75	21	16.52	July 5	17.75	17	16.42
Dec. 7	18.74	28	16.95	11	17.55	24	16.60
14	18.65	Apr. 4	17.17	16	17.51	31	16.79
21	18.50	11	17.29	25	16.24	Nov. 7	16.90
29	18.42	18	17.23	Aug. 1	16.59	14	17.05
Jan. 4, 1954	18.44	25	17.20	8	15.60	21	17.29
11	18.42	May 2	17.33	15	16.30	28	17.43
18	18.12	9	17.43	22	15.95	Dec. 5	17.39
25	17.71	16	17.42	29	16.28	12	17.48
31	17.66	23	17.54	Sept. 5	16.64	19	17.13
Feb. 8	17.78	30	17.70	12	16.93	26	17.13
14	17.90						

## Kanawha County

40-5-14. Coyle & Richardson Department Store. Dickinson and Lee Sts., Charleston. Lat. 38°20'53", long. 81°37'53". Drilled unused artesian well in Pottsville group, diameter 8 inches, depth 208 feet, cased to 42. Land-surface datum is about 575 feet above msl. Highest water level 28.82 below lsd, Apr. 15, 1951; lowest 43.44 below lsd, Sept. 6, 1945. Records available: 1941-54.

## Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.95	31.56	31.59	31.27	32.76	32.96	33.88	33.22	34.45	34.09	32.38	32.14
2	31.88	31.57	31.57	31.20	32.20	33.18	33.83	33.98	34.45	34.00	32.40	32.05
3	31.88	31.63	31.02	31.15	32.65	33.24	33.83	33.94	34.45	33.40	32.40	32.00
4	31.88	31.65	31.06	31.15	32.48	33.34	33.10	34.08	34.58	34.51	32.33	31.99
5	31.93	31.66	31.13	31.16	32.52	33.23	32.57	34.07	33.75	34.66	32.34	31.94
6	32.02	31.68	31.14	31.13	32.57	32.55	33.59	34.20	33.22	34.68	32.34	31.86
7	32.02	31.69	31.15	31.18	32.63	33.27	33.56	....	34.25	33.97	32.34	31.84
8	32.02	31.59	31.32	31.65	32.60	33.39	33.80	33.24	34.08	33.42	32.35	31.92
9	31.94	31.65	31.32	31.84	32.01	33.55	33.63	33.70	34.14	33.34	32.35	31.95
10	31.84	31.66	31.30	31.95	31.75	33.62	33.31	....	34.37	32.99	32.34	31.69
11	31.82	31.90	31.32	31.35	31.68	33.64	32.86	33.69	34.14	34.02	32.33	31.60
12	32.01	31.92	31.32	32.28	32.39	33.68	33.75	33.72	33.58	34.27	32.27	31.66
13	32.01	31.92	31.32	32.05	32.24	32.88	33.88	33.73	33.90	34.39	32.27	31.67
14	31.90	31.65	31.06	32.12	32.49	33.71	33.90	33.76	33.96	34.45	32.18	31.65
15	31.82	31.72	31.08	32.26	32.41	33.74	33.89	33.10	34.14	34.04	32.19	31.65
16	31.75	31.72	31.10	32.18	31.85	33.60	33.77	33.95	34.47	33.44	32.16	31.51
17	31.75	31.92	31.10	32.28	32.40	33.71	33.58	34.19	34.37	32.76	32.74	31.63
18	31.63	31.91	31.05	31.60	32.44	33.73	32.99	34.08	34.09	32.60	32.93	31.54
19	31.72	31.81	31.01	32.05	32.47	33.53	33.77	34.28	33.43	32.61	32.90	31.53
20	31.72	31.74	31.11	32.25	32.09	32.66	....	34.33	34.47	32.60	32.98	31.46
21	31.84	31.57	31.19	32.28	32.22	....	33.57	34.13	34.54	32.59	32.50	31.41
22	31.84	31.72	31.17	32.37	32.13	....	32.98	33.92	34.40	32.63	32.38	31.44
23	31.82	31.72	31.21	32.43	32.85	....	32.92	34.38	33.93	33.34	32.30	31.49
24	31.45	31.66	31.21	32.45	32.44	....	33.15	34.43	33.87	32.84	32.15	31.34
25	31.47	31.67	31.15	31.93	32.59	....	32.58	34.38	33.90	33.38	32.18	31.23
26	31.54	31.74	31.28	32.48	32.75	....	33.57	34.45	33.29	33.18	32.18	31.23
27	31.71	31.74	31.28	32.47	32.78	33.09	33.77	34.51	33.83	33.30	32.15	31.22
28	31.79	31.53	31.09	32.56	32.89	33.95	33.81	34.15	33.89	32.90	32.09	31.33
29	31.75		31.08	32.54	33.05	33.90	33.97	33.45	34.13	32.47	32.30	31.39
30	31.66		31.21	32.61	32.48	33.98	34.09	34.36	34.09	32.39	32.30	31.63
31	31.66		31.22		32.17		34.03	34.51		32.39		31.97

## Marshall County

4-3-8. Triangle Conduit & Cable Co. U. S. Highway 250, Glendale. Lat. 39°56'06", long. 80°45'20". Drilled unused water-table well in gravel, diameter 10 inches, depth 100 feet. land-surface datum is about 650 feet above msl. Highest water level 54.27 below lsd, Jan. 30, 1952; lowest 73.28 below lsd, Jan. 21-22, 1954. Records available: 1950-54.

4-3-8--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.99	72.44	72.37	70.62	69.18	69.84	70.37	71.56	71.92	73.24	68.18	69.79
2	73.03	72.49	72.31	70.50	69.23	69.90	70.37	71.63	71.93	.....	68.25	69.82
3	73.05	72.65	72.16	70.53	69.23	69.96	70.56	71.73	71.93	.....	68.35	69.86
4	73.13	72.85	71.86	70.63	69.20	69.98	70.60	71.61	71.48	.....	68.39	69.85
5	73.17	72.93	71.55	70.68	69.14	.....	70.62	71.61	71.30	73.24	68.51	69.87
6	73.21	72.85	71.21	70.70	69.15	.....	70.62	.....	71.55	73.23	68.51	69.92
7	73.25	72.87	70.91	70.78	69.19	.....	.....	71.68	72.10	73.17	68.53	69.94
8	73.23	72.96	70.88	70.88	69.23	69.98	.....	71.63	72.37	73.08	68.68	69.93
9	73.13	72.98	70.79	70.87	69.19	69.94	.....	71.65	72.50	.....	68.78	69.95
10	73.15	73.11	70.94	70.74	69.20	69.94	.....	71.66	72.65	73.01	68.83	70.02
11	73.19	73.18	71.05	70.47	69.07	69.98	.....	.....	72.72	73.01	68.90	70.03
12	73.22	73.18	71.05	70.33	68.99	70.06	.....	71.82	72.80	73.04	68.98	69.97
13	73.23	73.09	70.95	70.40	68.95	70.10	.....	71.82	72.87	73.08	68.98	70.06
14	73.25	73.18	70.80	70.42	68.98	70.14	.....	71.70	72.90	73.08	69.02	70.14
15	73.26	73.16	70.65	70.49	68.96	70.15	.....	71.30	72.96	73.08	69.17	70.20
16	73.16	73.16	70.69	70.57	69.07	70.24	.....	71.49	72.97	73.04	69.28	70.20
17	73.09	73.20	70.68	70.47	69.16	70.34	.....	71.55	72.98	72.92	69.33	70.17
18	73.07	73.26	70.72	69.99	69.17	70.28	.....	.....	72.98	72.92	69.40	70.02
19	73.18	73.26	70.85	69.87	69.17	70.05	.....	71.55	72.99	63.55	69.44	69.75
20	73.27	72.95	70.93	69.67	69.21	70.00	71.10	71.67	72.99	.....	69.48	69.68
21	73.28	72.70	71.00	69.48	69.30	69.93	71.13	71.62	73.01	.....	69.55	69.54
22	73.28	72.65	71.04	69.36	69.25	69.97	71.25	71.65	73.06	.....	69.63	69.38
23	73.09	72.63	71.03	69.42	69.28	70.07	71.22	71.67	73.04	.....	69.73	69.23
24	72.94	72.57	71.15	69.50	69.40	70.23	71.14	71.79	73.02	.....	69.74	69.07
25	72.93	72.50	71.25	69.63	69.52	70.31	71.23	71.87	73.09	.....	69.69	68.96
26	72.96	72.47	71.22	69.62	69.60	70.30	71.30	71.94	.....	66.96	69.76	68.96
27	72.99	72.42	71.10	69.60	69.68	70.30	71.43	71.85	.....	67.24	69.71	69.13
28	72.97	72.33	70.95	69.69	69.74	70.34	71.58	71.81	73.17	67.45	69.72	69.22
29	72.90		70.86	69.65	69.68	70.36	71.60	71.87	73.22	.....	69.81	69.19
30	72.68		70.80	69.40	69.70	70.39	71.61	71.84	73.24	.....	69.82	69.15
31	72.46		70.60		69.77		71.63	71.83				68.90

## Monongalia County

9-2-2. Earl Miller. Blacksville. Lat. 39°43'17", long. 80°12'26". Drilled unused water-table well in shale and sandy beds of lower part of Dunkard group, diameter 6 inches, depth 43 feet, cased to 25. Land-surface datum is about 950 feet above msl. Highest water level 10.98 below lsd, July 1, 1953; lowest 18.14 below lsd, Aug. 23, 1954. Records available: 1952-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29, 1952	12.92	Oct. 31, 1952	14.86	Aug. 3, 1953	17.10	May 10, 1954	15.92
Feb. 26	14.17	Nov. 27	17.02	Sept. 7	18.12	June 8	17.10
Mar. 25	12.53	Dec. 31	15.01	30	15.57	July 12	17.48
Apr. 21	13.58	Feb. 2, 1953	13.99	Nov. 4	15.78	Aug. 23	18.14
May 28	13.23	26	16.39	Dec. 5	15.61	Sept. 2	15.54
June 26	15.30	Apr. 1	13.45	Jan. 21, 1954	15.02	29	18.05
July 30	16.32	30	14.38	Feb. 3	14.64	Dec. 9	14.66
Aug. 27	15.20	May 27	14.93	Mar. 5	14.99		
Sept. 29	15.10	July 1	10.98	Apr. 9	15.92		

9-2-2a. Earl Miller. Blacksville. Lat. 39°43'17", long. 80°12'26". Dug unused water-table well in shale and sandy beds of lower part of Dunkard group, diameter 3 feet, depth 16 feet. Land-surface datum is about 950 feet above msl. Highest water level 5.47 below lsd, Jan. 29, 1952; lowest 13.28 below lsd, Dec. 5, 1953. Records available: 1941, 1943-45, 1951-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1941	6.87	Feb. 26, 1952	7.98	Feb. 26, 1953	7.55	Feb. 3, 1954	8.18
July 12, 1943	7.97	Mar. 25	5.49	Apr. 1	7.87	Mar. 5	6.36
Aug. 20	8.15	Apr. 21	6.92	30	7.86	Apr. 9	9.04
Nov. 20	8.73	May 28	5.53	May 27	8.78	May 10	7.66
Jan. 6, 1944	8.75	June 26	7.31	July 1	17.11	June 8	9.37
June 20	8.62	July 30	9.52	Aug. 3	12.37	July 12	10.46
Aug. 18	9.76	Aug. 27	8.07	Sept. 7	11.22	Aug. 23	7.64
July 6, 1945	8.17	Sept. 29	9.30	30	9.81	Sept. 2	7.85
Oct. 26, 1951	12.63	Oct. 31	11.41	Nov. 4	12.74	29	9.79
Nov. 28	7.79	Nov. 27	10.41	Dec. 5	13.28	Nov. 2	6.32
Dec. 27	7.55	Dec. 31	8.79	Jan. 21, 1954	7.09	Dec. 9	10.37
Jan. 29, 1952	5.47	Feb. 2, 1953	6.61				

9-6-27. T. J. Johnson. Morgantown. Lat. 39°37'37", long. 79°57'29". Drilled unused artesian well in sandstone of Pottsville group, diameter 10 inches, depth 875 feet, cased to 425. Land-surface datum is about 840 feet above msl. Highest water level 84.34 below lsd, July 26, 1954; lowest 166.41 below lsd, Sept. 10, 1945. Records available: 1941-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	85.73	Apr. 9	86.01	July 26	84.34	Oct. 2	85.26
Feb. 3	86.31	May 10	85.04	Aug. 6	84.92	Nov. 10	86.91
Mar. 8	85.91	June 8	84.82	Sept. 2	85.50		

9-6-45. Deckers Creek Sand Co. Greer. Lat. 39°34'11", long. 79°50'23". Drilled unused artesian well in Pocono sandstone, diameter 8 inches, depth 105 feet, cased to 48. Land-surface datum is about 1,460 feet above msl. Highest water level 8.90 below lsd, Jan. 28, 1952; lowest 32.67 below lsd, Sept. 16, 1946. Records available: 1941-45, 1947-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	11.41	Apr. 9	10.44	July 12	11.21	Oct. 2	11.12
Feb. 3	10.66	May 10	10.00	Aug. 6	9.94	Nov. 10	10.52
Mar. 8	10.24	June 8	10.64	Sept. 2	10.35	Dec. 8	10.44

9-7-33. Paul H. Price. Halleck. Lat. 39°29'23", long. 79°57'18". Drilled unused water-table well in Buffalo and Mahoning sandstone members of Conemaugh formation, diameter 6 inches, depth 141 feet, cased to 21. Land-surface datum is about 1,850 feet above msl. Highest water level 59.97 below lsd, Dec. 8, 1954; lowest 65.37 below lsd, Feb. 3, 1954. Records available: 1953-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 27, 1953	64.34	Nov. 4, 1953	65.16	Apr. 9, 1954	64.23	Sept. 2, 1954	61.79
July 1	64.76	Dec. 5	65.27	May 10	63.49	Oct. 2	63.73
Aug. 3	64.93	Jan. 20, 1954	64.56	June 8	64.47	Nov. 10	61.19
31	65.02	Feb. 3	65.37	July 12	64.50	Dec. 8	59.97
Sept. 30	65.15	Mar. 8	65.17	Aug. 6	63.42		

#### Preston County

11-3-8. G. E. Lemmons. East Depot St., Masontown. Lat. 39°33'06", long. 79°47'43". Drilled domestic artesian well in sandstone of Pottsville group, diameter 8 inches, depth 785 feet. Land-surface datum is about 1,770 feet above msl. Highest water level 7.70 below lsd, Mar. 14, 1947; lowest 23.74 below lsd, Dec. 5, 1953. Records available: 1941-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	15.36	Apr. 9	17.98	July 12	19.99	Nov. 10	17.30
Feb. 3	17.20	May 10	17.71	Oct. 2	19.73	Dec. 8	18.49
Mar. 8	15.00	June 8	20.50				

11-3-14. Sterling Manufacturing Co. Formerly Belfort Corp. Lat. 39°30'22", long. 79°48'27". Drilled artesian well in sandstone of Conemaugh formation, diameter 4 inches, depth 17 feet. Land-surface datum is about 1,700 feet above msl. Highest water level 0.74 above lsd, Feb. 19, 1943; lowest 2.66 below lsd, Nov. 4, 1953. Records available: 1941-43, 1945-46, 1949-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	0.57	Apr. 9	0.74	July 12	0.87	Nov. 10	1.22
Feb. 3	.42	May 10	.87	Aug. 6	1.03	Dec. 8	.12
Mar. 8	.21	June 8	.90	Oct. 2	1.08		

#### Tucker County

15-5-1. West Virginia Conservation Commission (Parsons Nursery). Lat. 39°05'31", long. 79°39'52". Parsons. Drilled used well in sandstone of Catskill red beds, diameter 6 inches, depth 80 feet, cased to 80. Land-surface datum is about 1,200 feet above msl. Highest water level 8.56 below lsd, Oct. 22, 1954; lowest 12.52 below lsd, Dec. 4, 1953. Records available: 1953-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 5, 1953	12.27	Feb. 19, 1954	10.62	May 28, 1954	10.95	Sept. 3, 1954	10.30
13	12.39	26	10.43	June 4	11.09	10	10.68
20	12.49	Mar. 5	10.05	11	11.15	17	10.95
27	12.45	12	9.59	18	11.15	26	11.12
Dec. 4	12.52	19	9.67	25	11.36	Oct. 4	11.23
11	12.30	26	9.88	July 2	11.48	15	10.75
18	11.97	Apr. 2	10.29	9	11.40	22	8.56
31	11.88	9	10.35	16	11.30	29	9.35
Jan. 8, 1954	11.98	16	10.33	23	11.15	Nov. 5	9.55
15	11.50	23	10.40	30	11.38	12	9.93
22	10.46	30	9.60	Aug. 6	11.04	Dec. 3	11.39
29	10.32	May 10	10.70	13	10.94	10	10.59
Feb. 5	10.75	14	10.73	20	10.81	20	10.45
11	10.78	21	10.83	27	10.26		

Wayne County

50-1-5. Ashland Oil & Refining Corp. Kenova. Lat. 38°24'24", long. 82°35'27". Drilled unused water-table well in gravel, diameter 6 inches, depth 73 feet. Land-surface datum is about 548 feet above msl. Highest water level 23.93 below lsd, Feb. 9, 1951; lowest 43.14 below lsd, Dec. 11, 18, 1953. Records available: 1942-46, 1948-54.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 25	41.02	Aug. 13	39.77	Sept. 30	42.58	Nov. 19	42.00
July 2	41.27	20	40.27	Oct. 8	42.27	26	42.02
9	41.85	27	41.18	15	42.30	3	42.12
16	41.35	Sept. 3	41.76	22	42.10	10	42.27
23	41.02	10	42.27	29	41.89	17	42.01
30	40.00	17	42.43	Nov. 5	41.89	24	41.68
Aug. 6	38.27	24	42.60	12	41.93	31	39.35

Wetzel County

6-4-3. State Road Commission (Dist. 6). Burton. Lat. 39°39'53", long. 80°25'52". Drilled well in sandstone of lower Dunkard group, diameter 10 inches, depth 116 feet, cased to 80. Land-surface datum is about 1,068 feet above msl. Highest water level 6.48 below lsd, Mar. 5, 1954; lowest 11.01 below lsd, Nov. 18, 1953. Records available: 1953-54.

Nov. 18, 1953	11.01	Mar. 5, 1954	6.48	July 12, 1954	9.85	Sept. 29, 1954	8.94
Dec. 5	10.58	Apr. 9	8.95	Aug. 23	7.88	Nov. 2	8.21
Jan. 21, 1954	8.17	May 10	7.20	Sept. 2	7.75	Dec. 9	8.23
Feb. 3	8.28	June 8	8.16				

Wood County

27-3-20. City of Parkersburg. Lat. 39°17'15", long. 81°33'37". Drilled unused water-table well in gravel, diameter 36 to 18 inches, depth 57 feet, screen 47-57, gravel packed. Land-surface datum is about 608 feet above msl. Highest water level 17.15 below lsd, Mar. 7, 1945; lowest 43.43 below lsd, Dec. 1, 1947. Records available: 1943-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	39.21	37.00	.....	36.02	.....	35.89	36.28	37.91	35.59	37.20
2	.....	39.52	39.09	36.55	.....	.....	.....	.....	36.47	37.89	35.78	37.20
3	.....	.....	38.66	36.68	.....	.....	.....	.....	36.73	.....	35.85	37.24
4	.....	.....	37.95	36.84	34.39	.....	.....	.....	36.80	.....	35.90	37.28
5	.....	.....	37.15	36.95	.....	.....	35.77	.....	.....	37.91	36.02	37.31
6	.....	.....	36.56	36.92	.....	.....	.....	.....	.....	37.94	36.15	37.15
7	.....	.....	36.29	36.73	.....	35.87	.....	.....	37.13	37.94	36.25	37.17
8	.....	.....	36.45	36.90	.....	.....	.....	.....	37.18	37.92	36.29	37.17
9	.....	39.56	36.71	36.88	.....	.....	.....	.....	37.21	37.91	36.15	37.27
10	.....	.....	36.92	36.85	.....	.....	.....	36.30	37.31	37.95	36.25	37.33
11	.....	.....	37.16	36.98	35.75	.....	.....	36.32	37.37	.....	36.23	37.32
12	.....	.....	37.31	37.05	.....	.....	.....	36.29	.....	38.00	36.35	37.10
13	.....	.....	37.40	36.92	.....	.....	36.06	36.36	.....	38.02	36.26	36.99
14	.....	.....	37.48	36.81	.....	35.85	.....	36.39	37.46	38.01	36.30	36.96
15	.....	.....	37.49	36.77	.....	.....	.....	36.33	37.51	38.00	36.33	36.84
16	.....	40.93	37.52	36.85	.....	.....	.....	36.30	37.51	.....	36.54	36.83
17	.....	40.84	37.53	36.72	35.14	.....	.....	35.98	37.53	.....	36.59	36.72
18	40.14	40.49	37.65	36.22	.....	.....	.....	35.98	37.54	.....	36.61	36.55
19	40.16	40.25	37.70	35.42	.....	.....	.....	36.02	.....	30.90	36.63	.....
20	40.19	40.00	37.79	.....	.....	.....	36.20	36.02	.....	31.41	36.72	36.17
21	.....	39.75	37.86	.....	.....	35.86	.....	36.00	37.63	32.02	36.71	35.94
22	.....	39.65	37.90	.....	.....	.....	.....	35.89	37.68	32.65	36.74	35.76
23	.....	39.60	38.17	.....	.....	.....	.....	36.17	37.73	34.20	36.70	36.05
24	.....	39.53	38.49	.....	35.70	.....	.....	36.17	37.70	34.94	36.84	36.40
25	.....	39.42	38.55	.....	.....	.....	.....	36.15	37.71	34.98	36.90	36.47
26	40.07	39.42	38.52	35.06	.....	.....	.....	36.10	.....	34.40	36.95	36.50
27	.....	39.39	38.43	.....	.....	.....	36.38	36.07	.....	34.74	36.94	36.67
28	.....	39.29	38.16	.....	.....	35.89	.....	36.09	37.84	34.87	36.88	36.81
29	.....	.....	37.96	.....	.....	.....	.....	36.09	37.88	35.05	37.03	36.81
30	.....	.....	37.73	.....	.....	.....	.....	36.12	37.90	35.26	37.27	36.01
31	.....	.....	37.47	.....	35.96	.....	.....	36.17	.....	35.54	.....	35.30

27-3-22. City of Parkersburg. Lat. 39°17'12", long. 81°33' 32". Drilled unused water-table well in gravel, diameter 5 inches, depth 55 feet, cased to 55. Land-surface datum is about 601 feet above msl. Highest water level 22.56 below lsd, Feb. 8, 1952; lowest 37.75 below lsd, Feb. 12, 1948. Records available: 1943-44, 1946-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	34.89	34.94	33.10	31.07	31.92	32.05	32.51	32.29	33.28	31.23	32.36
2	.....	34.95	34.85	32.85	30.91	31.92	32.05	32.48	32.29	33.25	31.38	.....
3	.....	35.01	34.45	32.98	31.07	31.93	32.04	32.40	32.46	33.28	31.42	.....
4	.....	34.97	34.04	33.05	31.07	31.98	32.06	32.43	32.52	33.29	31.47	.....
5	.....	34.98	33.46	33.06	30.99	32.02	32.02	32.43	32.57	33.35	31.55	32.51
6	.....	35.02	33.08	33.07	30.96	32.04	.....	32.42	32.57	33.42	31.65	32.52
7	.....	35.02	.....	33.04	31.08	32.05	.....	32.39	32.58	33.42	31.74	32.53
8	.....	34.97	32.90	33.13	31.29	32.07	.....	32.37	32.67	33.36	31.78	32.53
9	.....	35.00	32.96	33.08	31.88	32.06	.....	32.34	32.67	33.33	31.87	32.63
10	.....	35.03	33.23	33.00	31.47	32.07	.....	32.33	32.75	33.37	31.96	32.71
11	.....	35.05	33.26	33.08	31.59	32.07	.....	32.37	32.83	.....	31.95	32.71
12	.....	35.10	33.36	33.16	31.66	32.07	.....	32.34	32.86	33.47	32.02	32.66
13	.....	35.25	33.38	33.08	31.67	32.07	32.20	32.39	32.88	33.50	32.03	32.65
14	.....	35.46	33.44	32.97	31.67	32.07	32.22	32.43	32.90	33.47	32.08	32.61
15	.....	35.56	33.51	32.97	31.74	32.02	32.30	32.37	32.93	33.45	32.09	32.48
16	.....	35.72	33.54	33.06	.....	32.03	32.28	32.33	32.95	33.17	32.06	32.54
17	.....	35.76	33.51	32.97	31.75	32.04	32.24	32.39	32.96	32.08	.....	32.50
18	35.26	35.61	33.57	32.60	31.76	31.99	32.23	32.39	32.97	30.44	.....	32.29
19	35.30	35.52	33.59	32.03	31.80	31.98	32.27	32.43	.....	29.13	.....	32.16
20	35.30	35.36	33.71	31.67	31.85	31.98	32.42	32.45	.....	28.55	.....	31.89
21	35.42	35.20	33.72	31.40	31.90	32.05	32.38	32.43	33.11	.....	.....	31.71
22	35.31	35.15	33.72	31.30	31.90	32.06	32.42	32.37	33.07	.....	32.22	31.57
23	35.26	35.12	33.82	31.46	31.93	32.06	32.42	32.30	33.13	.....	32.22	31.78
24	35.20	35.07	33.89	31.52	31.92	32.06	32.46	32.27	33.09	.....	32.33	32.07
25	35.20	35.02	33.94	31.57	31.91	32.05	32.46	32.26	33.08	.....	32.36	32.13
26	35.25	35.12	34.02	31.73	31.98	32.03	32.46	32.24	33.13	30.39	32.43	32.13
27	35.27	35.06	33.97	31.81	31.98	32.07	32.50	32.23	33.15	30.66	32.39	32.17
28	35.27	35.00	33.71	31.78	31.91	32.10	32.56	32.22	33.22	30.72	32.39	32.29
29	35.17		33.55	31.54	31.05	32.08	32.59	32.22	33.25	30.85	32.53	32.30
30	35.01		33.43	31.35	31.08	32.05	32.60	32.18	33.27	30.99	32.36	32.05
31	34.89		33.26		31.02		32.58	32.25		31.06		31.23

